



Iniciativa para o Uso da Terra

THE EXPANSION OF SOYBEAN PRODUCTION IN THE CERRADO

PATHS TO A SUSTAINABLE TERRITORIAL OCCUPATION,
LAND USE AND PRODUCTION

14.12.2016

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AGROICONE / INPA



ENHANCING PRODUCTION AND CONSERVATION

CHALLENGES

REDUCE DEFORESTATION



AGRICULTURE EFFICIENCY



ECOSSYSTEMS RESTORATION

SOLUTIONS

TRANSITION PASTURE-AGRICULTURE

LIVESTOCK INTENSIFICATION

NATURAL REGENERATION

THE CERRADO TODAY

LAND USE AND LAND COVER

111 Mha
de vegetação
de Cerrado

87 Mha
de agropecuária



24%
está em terras
públicas,
protegidas por
UCs e territórios
indígenas

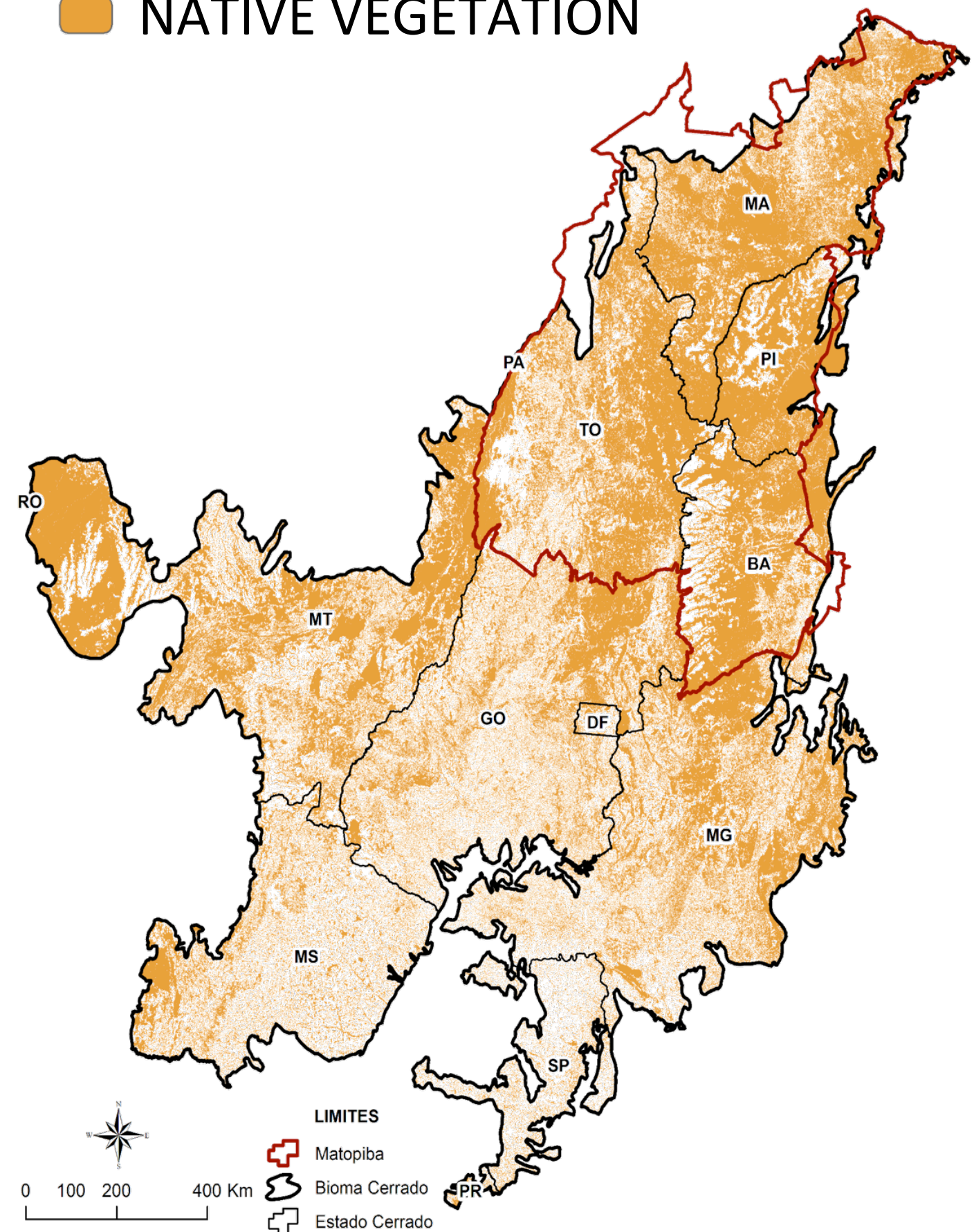
PROTECTED AREAS

76%
está em
propriedades
privadas

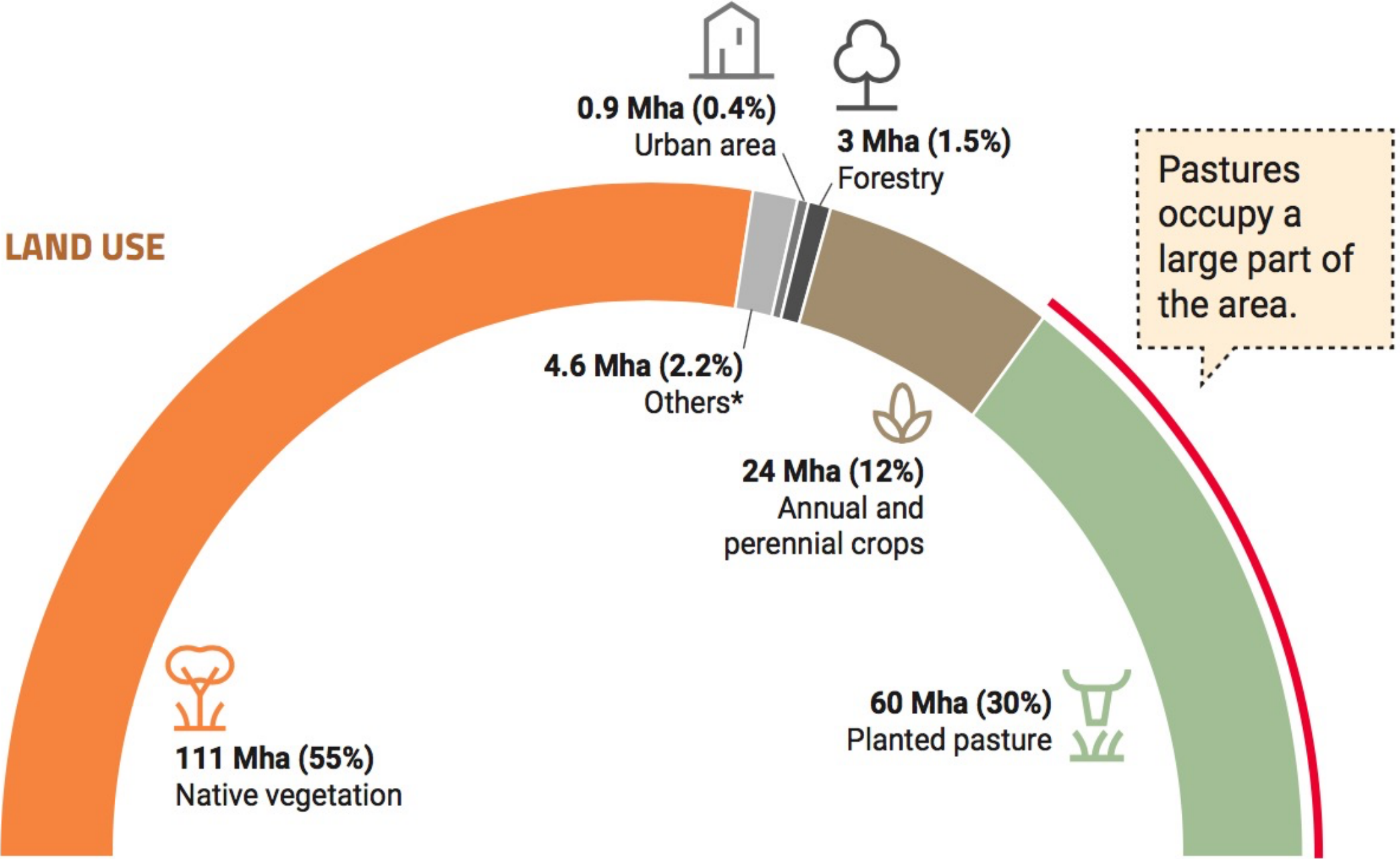
PRIVATE LAND

LAND USE AND LAND COVER

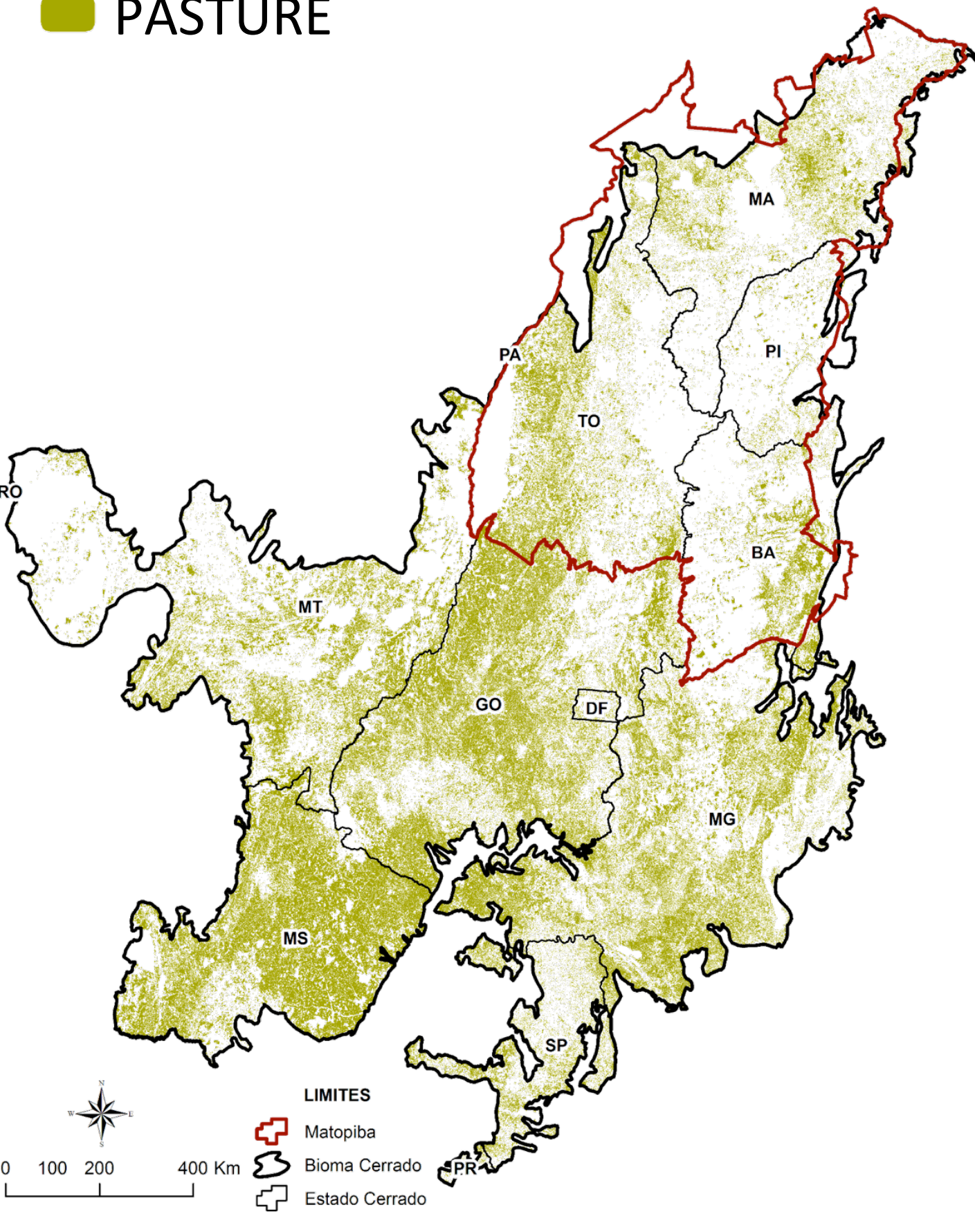
NATIVE VEGETATION



LAND USE

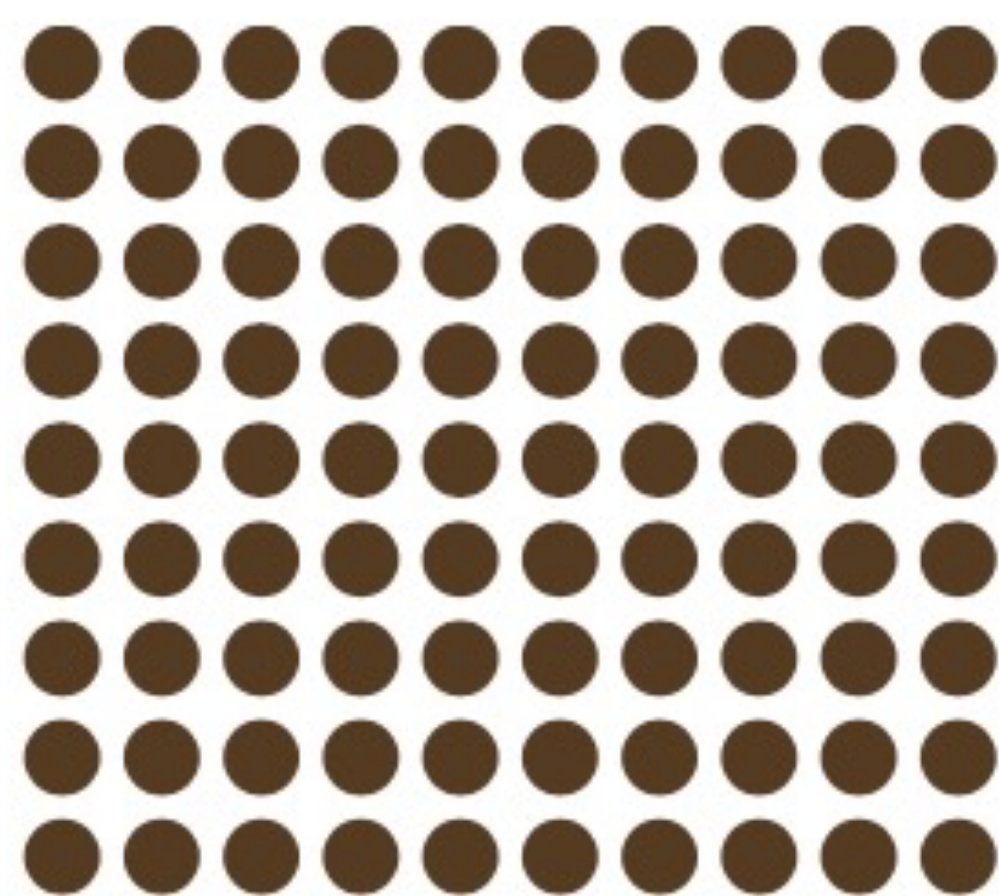


PASTURE



SOY IN THE CERRADO

AGRICULTURE IN THE CERRADO



90% soybeans



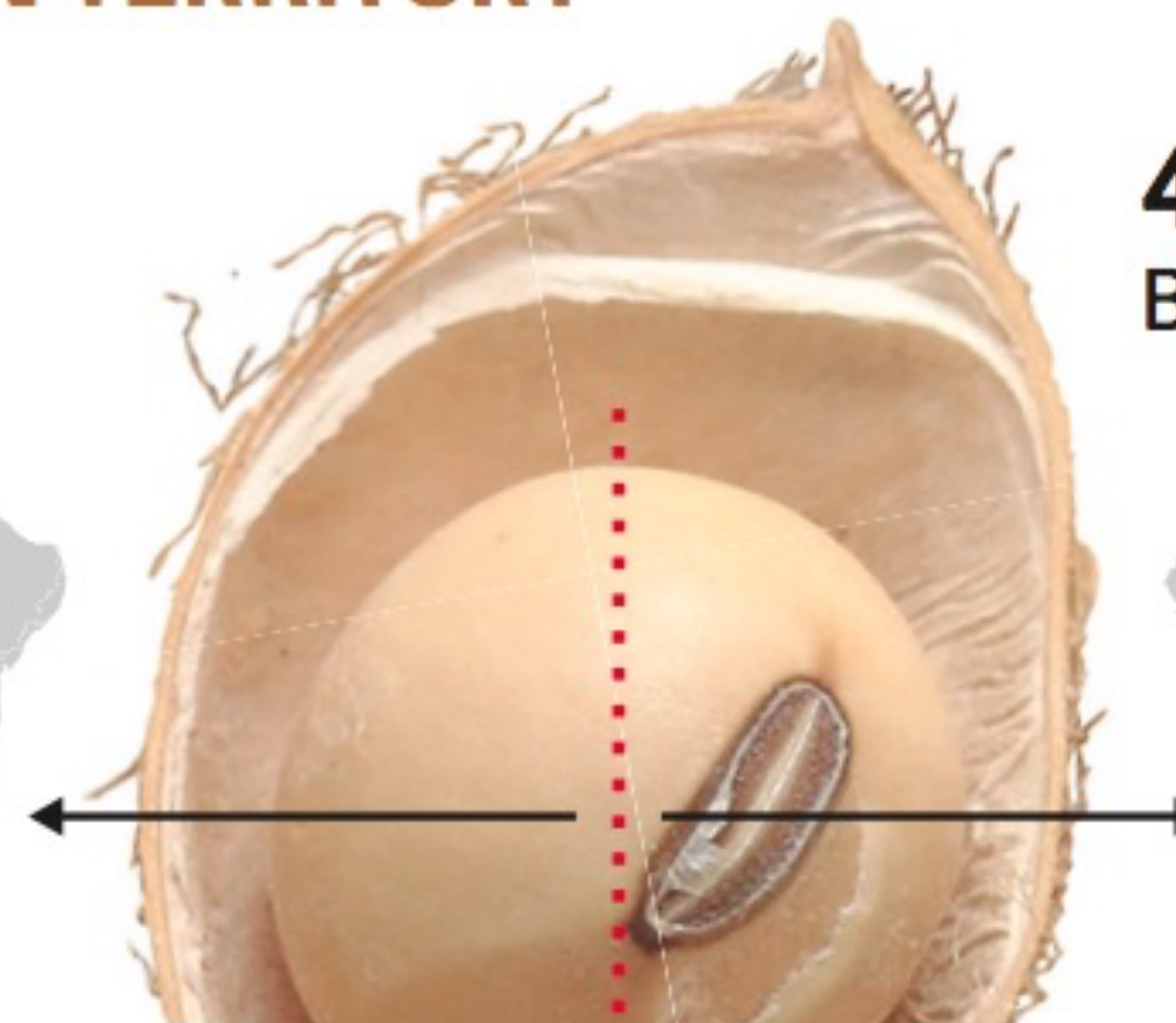
10%
cotton,
maize
and other
crops

THE CULTIVATION OF SOYBEANS IN THE BRAZILIAN TERRITORY

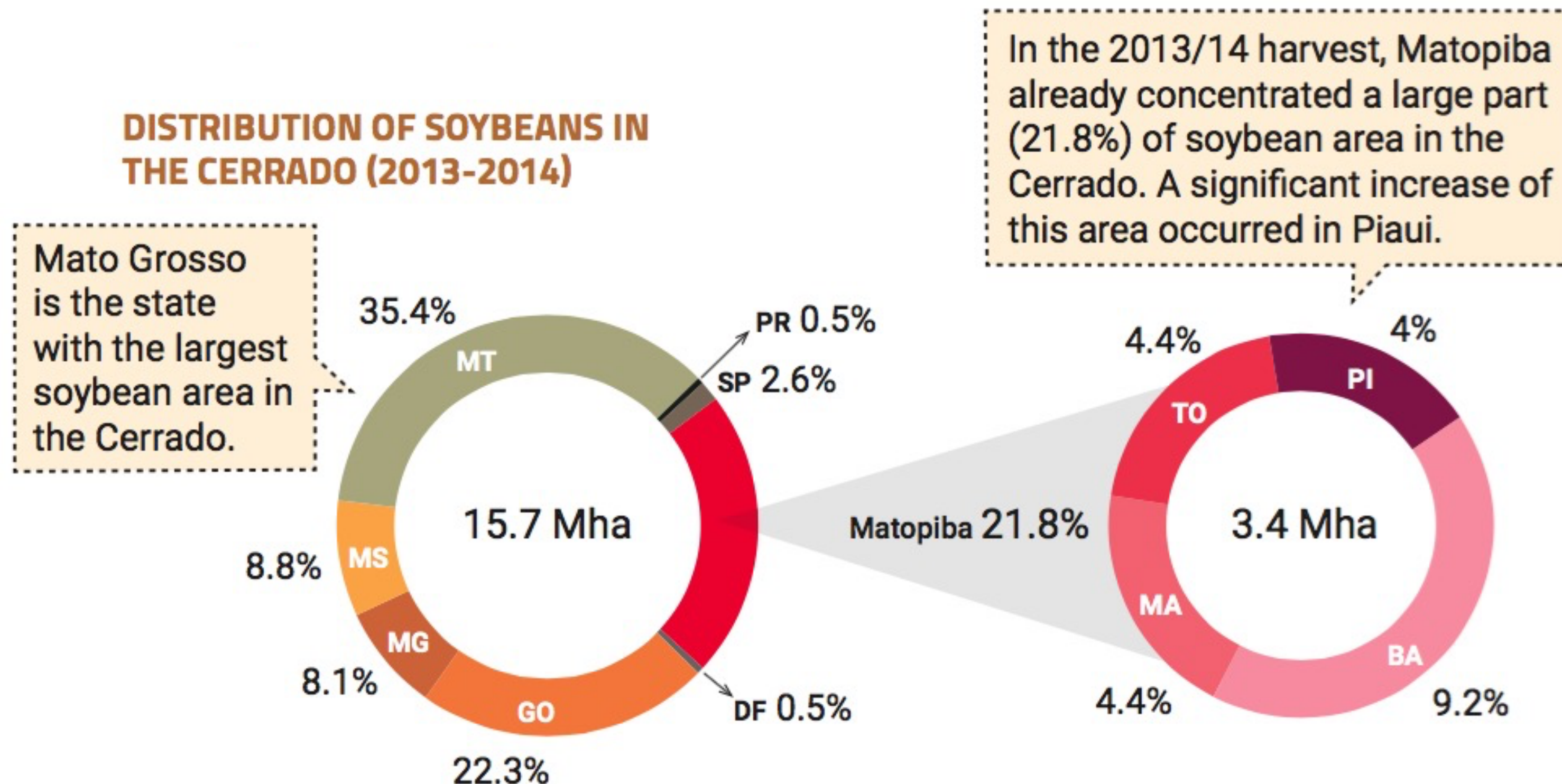
52% in the
Cerrado



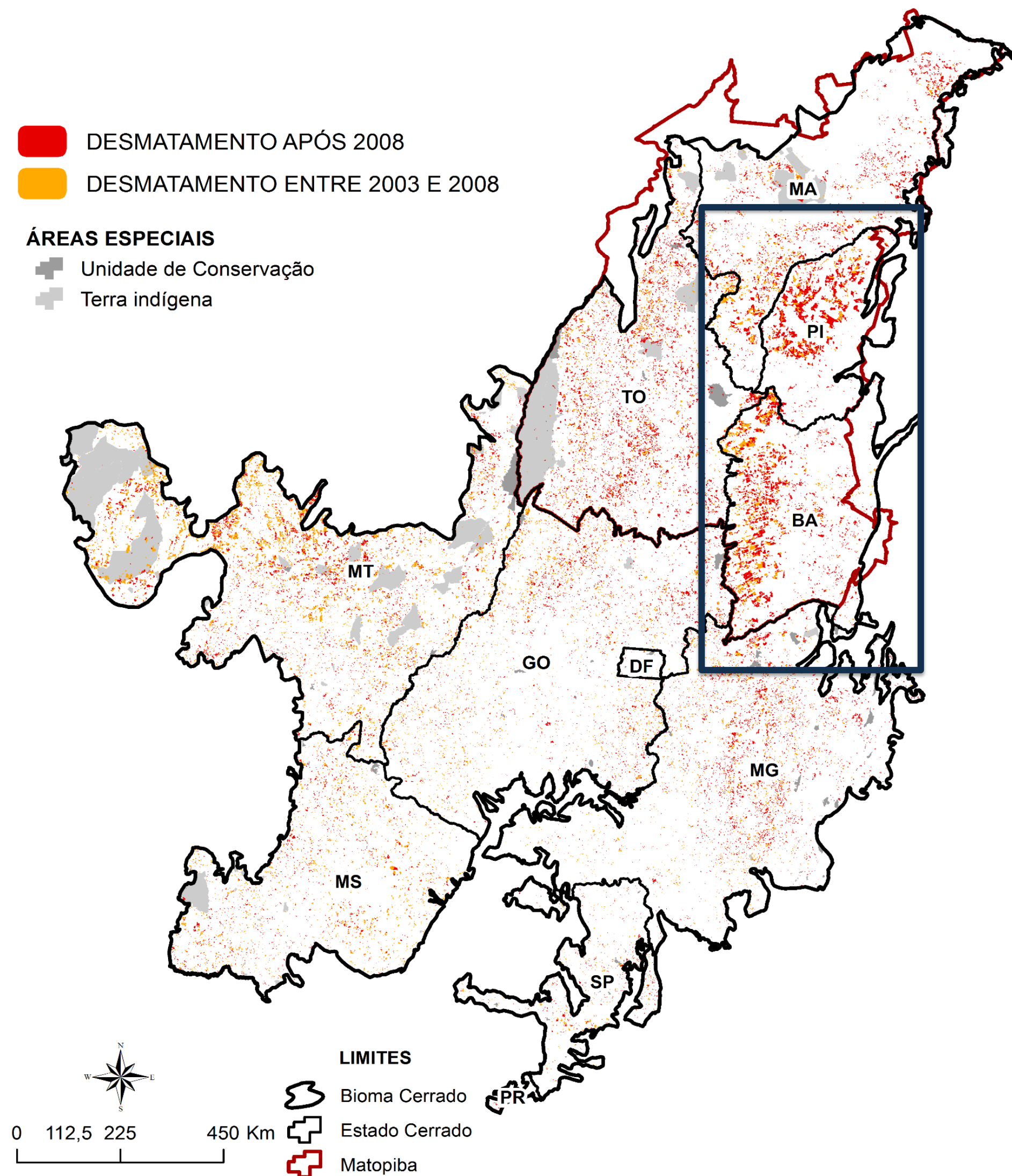
48% in other
Brazilian regions



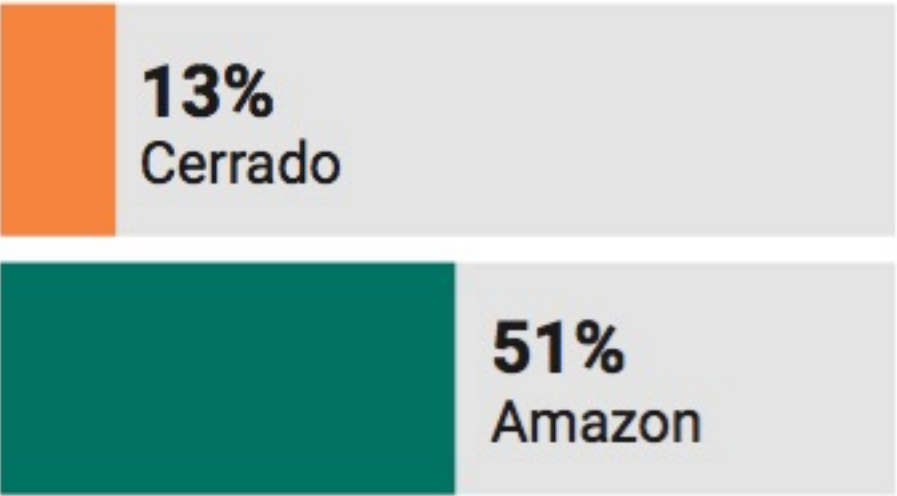
SOY DISTRIBUTION IN THE CERRADO



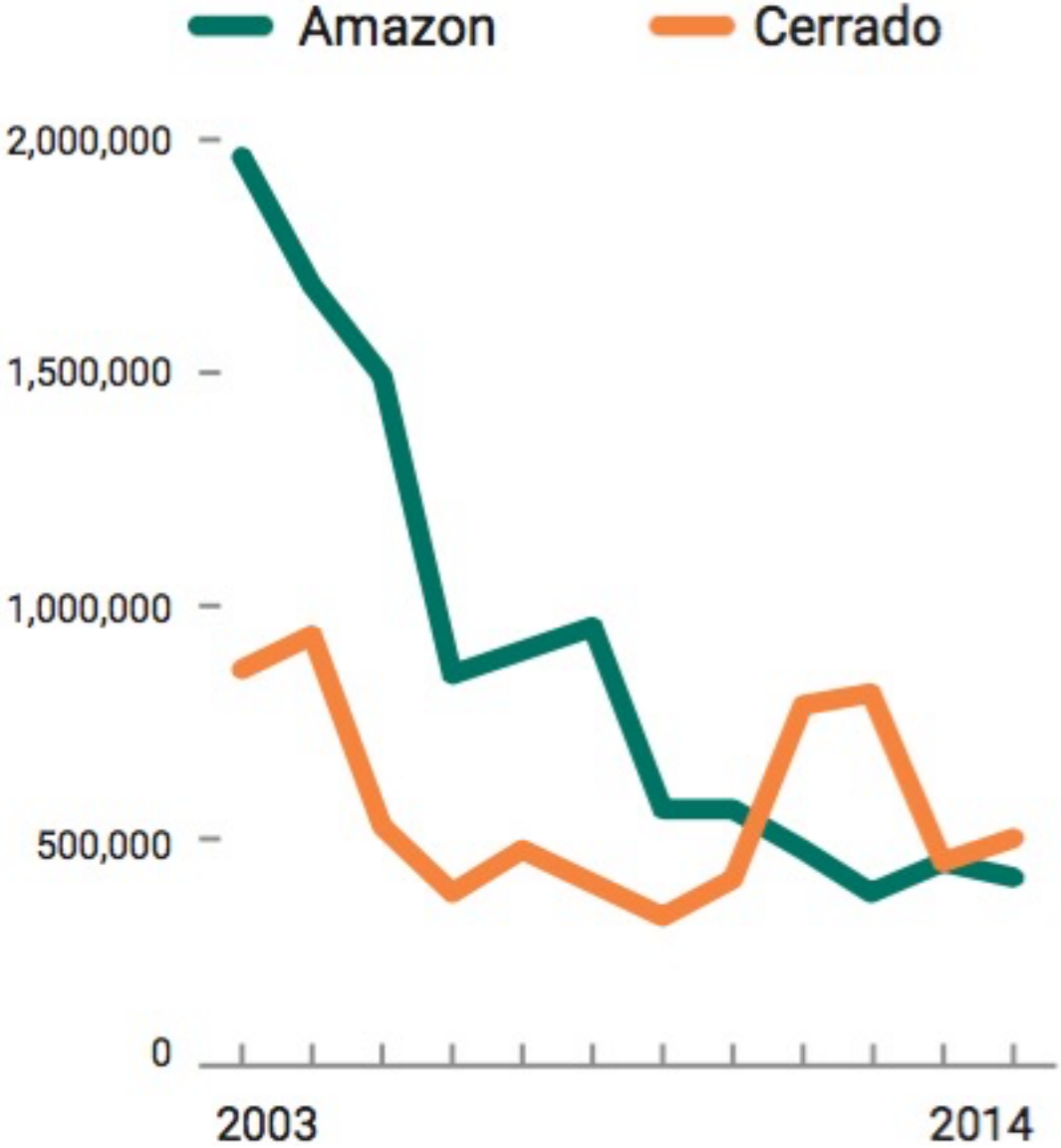
DEFORESTATION IN THE CERRADO



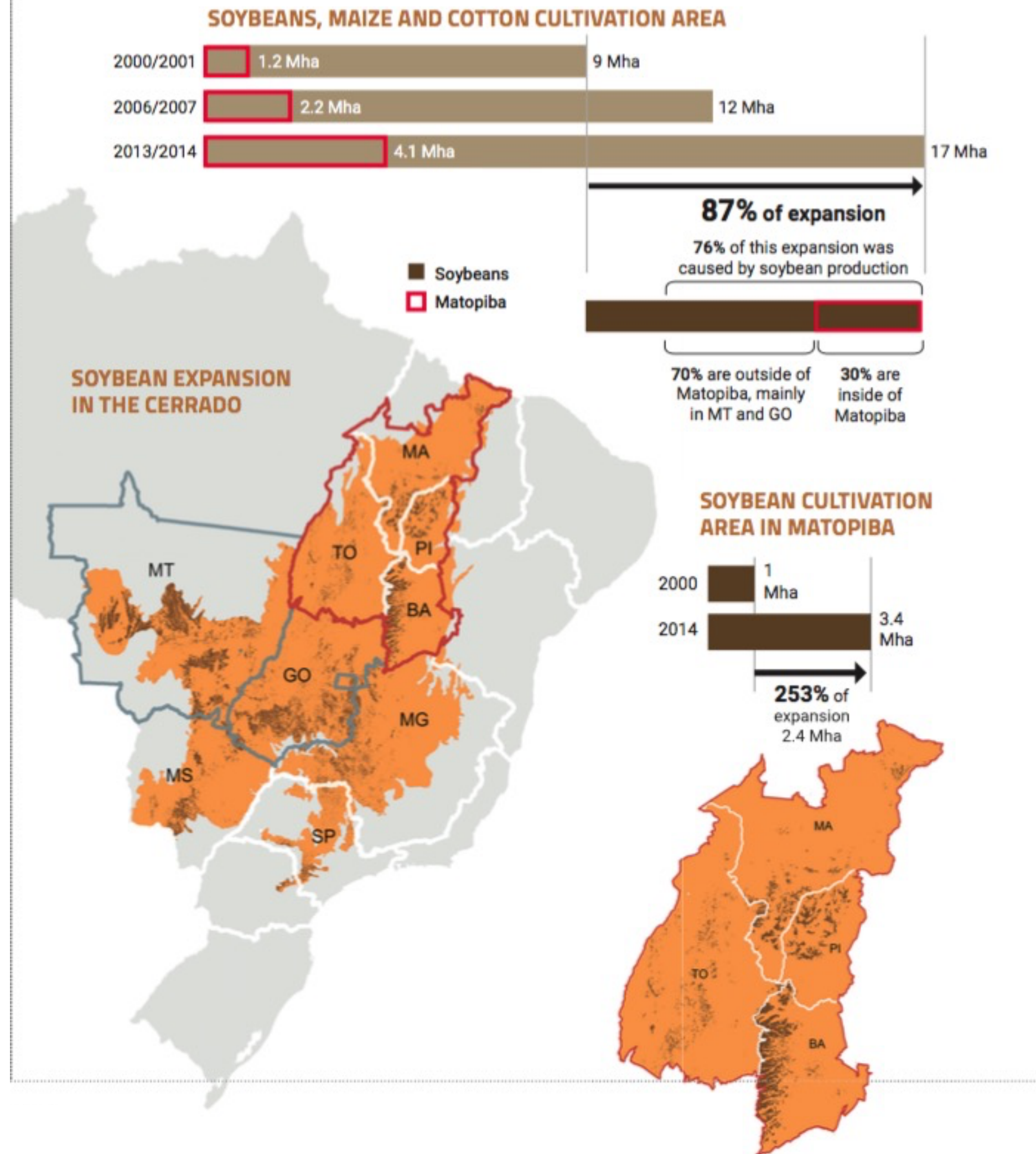
PROTECTED AREAS IN CONSERVATION UNITS (UCS) AND INDIGENOUS TERRITORIES



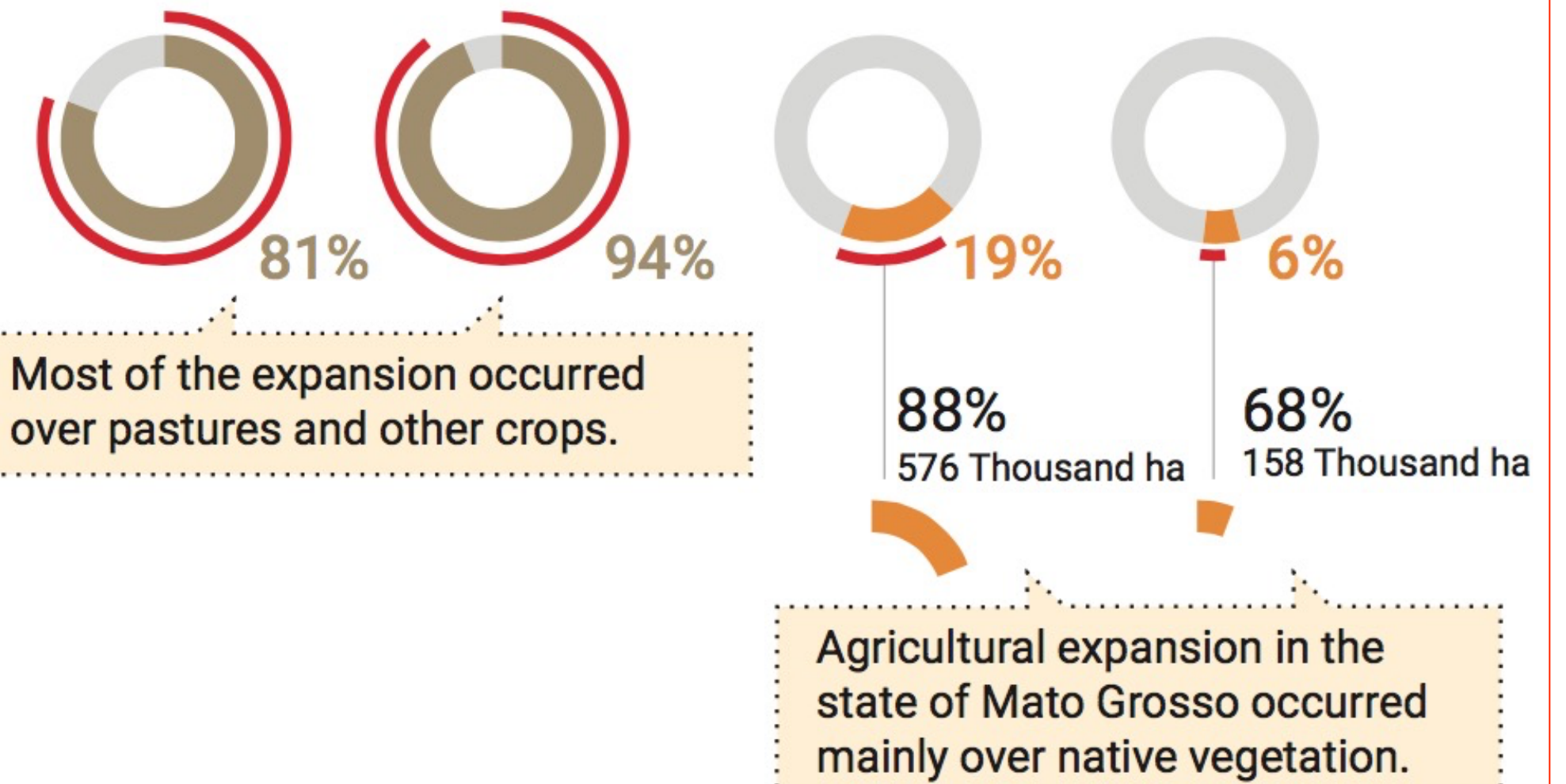
ANNUAL DEFORESTATION RATE IN HA/YEAR



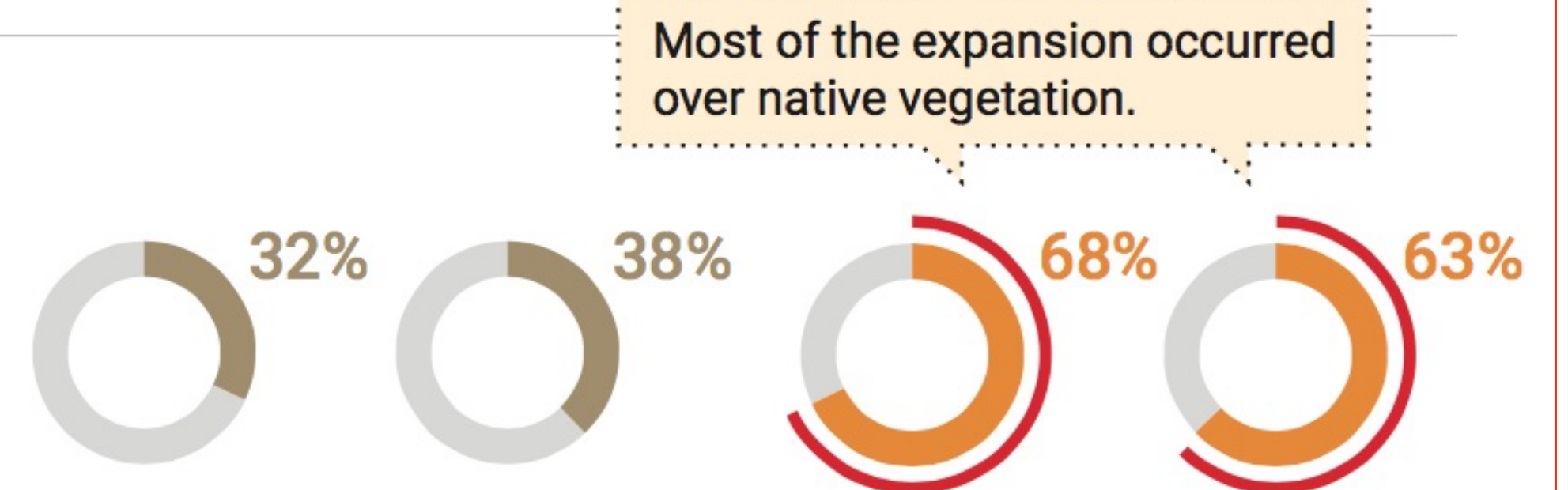
Agricultural expansion in the Cerrado 2000–2014



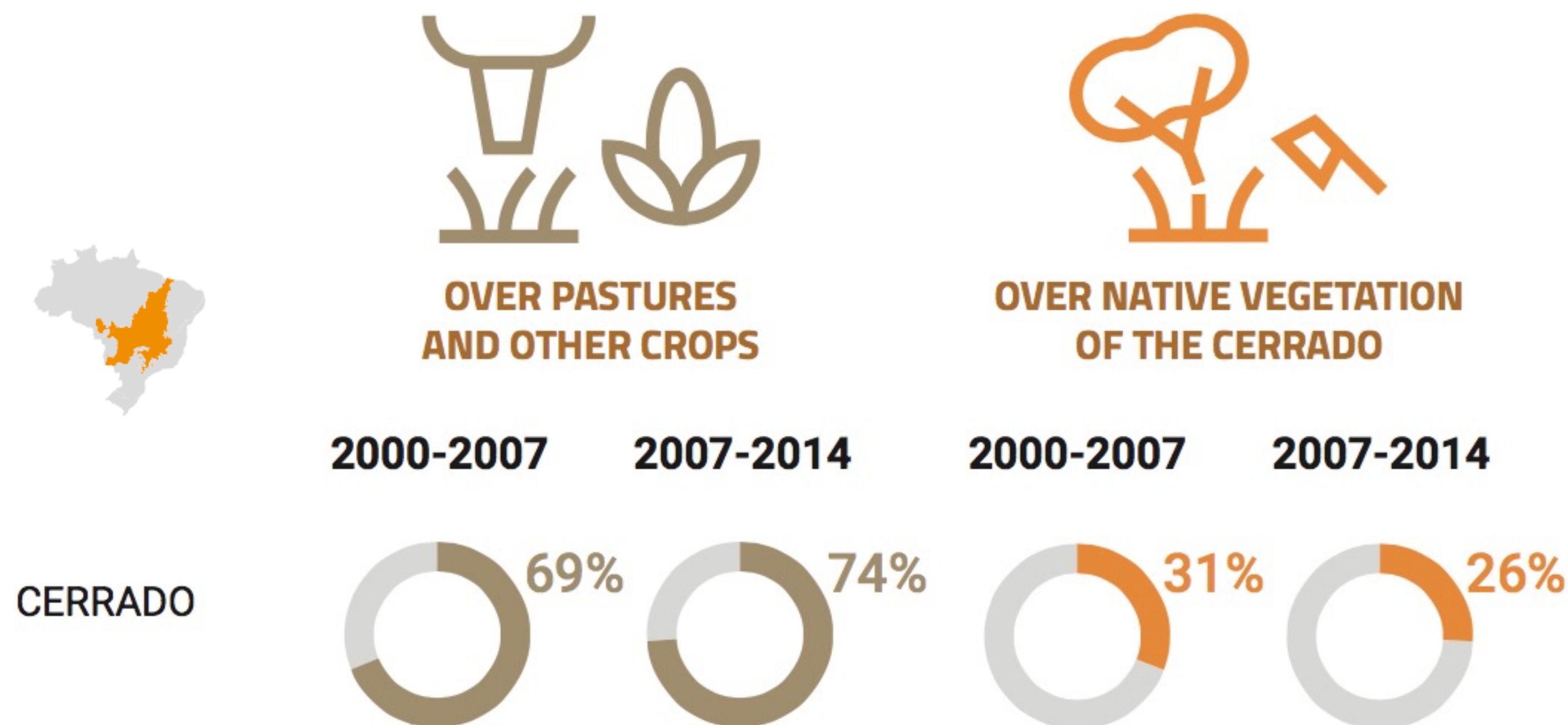
OUTSIDE OF MATOPIBA



MATOPIBA



MODEL OF AGRICULTURAL EXPANSION IN THE CERRADO

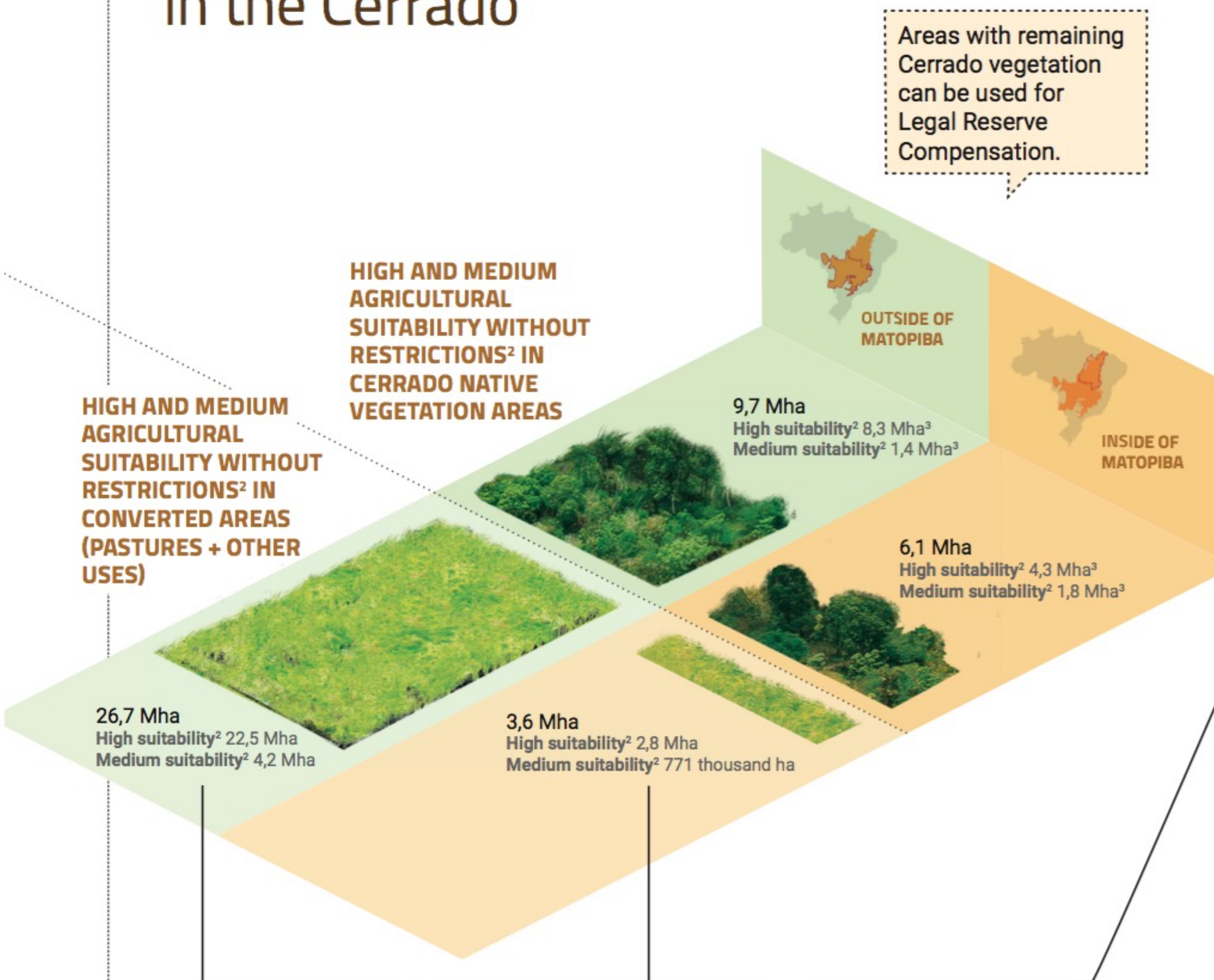




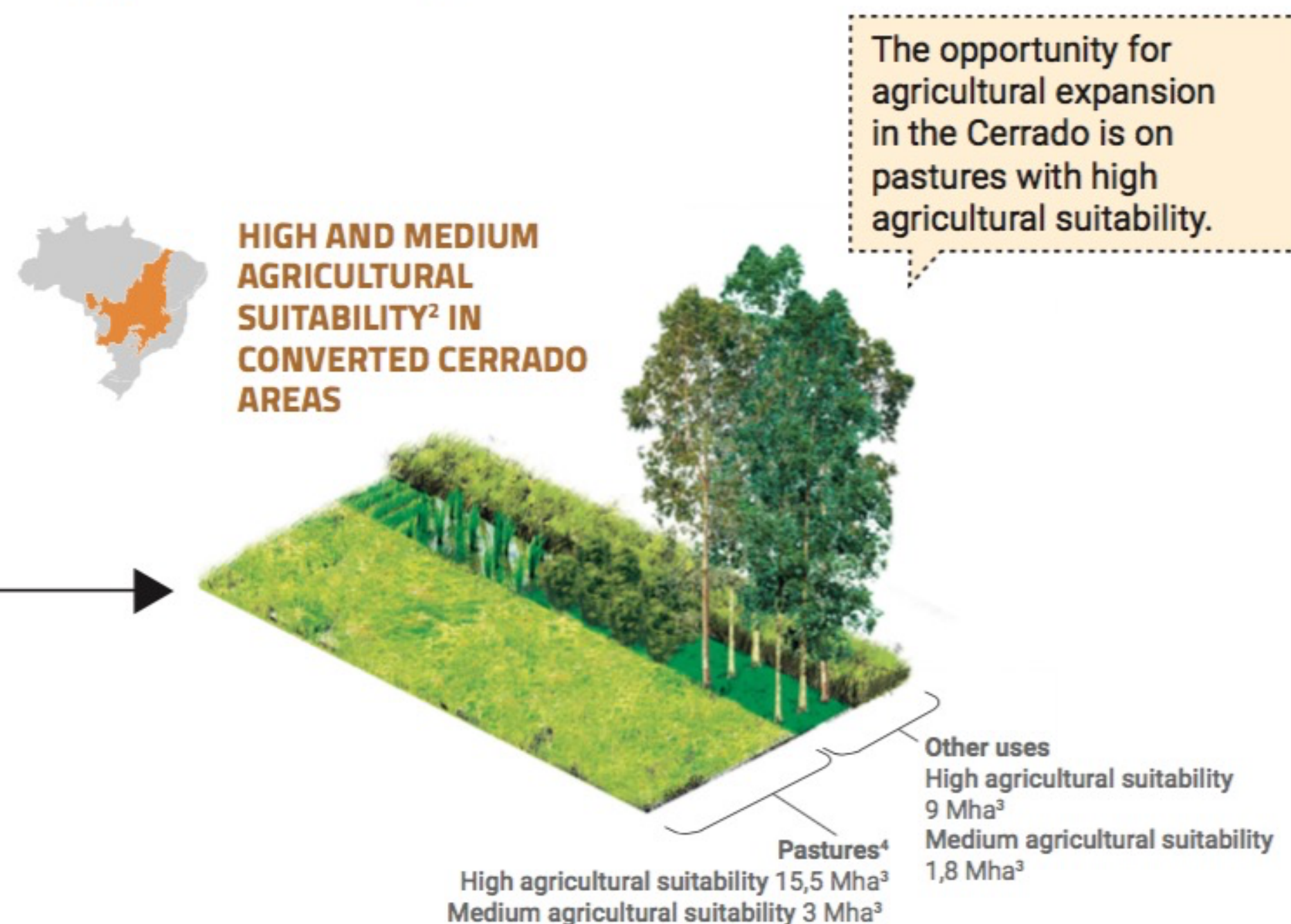
Pastures, the agricultural opportunity of the Cerrado

PATHS TO OPTIMIZING LAND USE

Agricultural suitability in the Cerrado



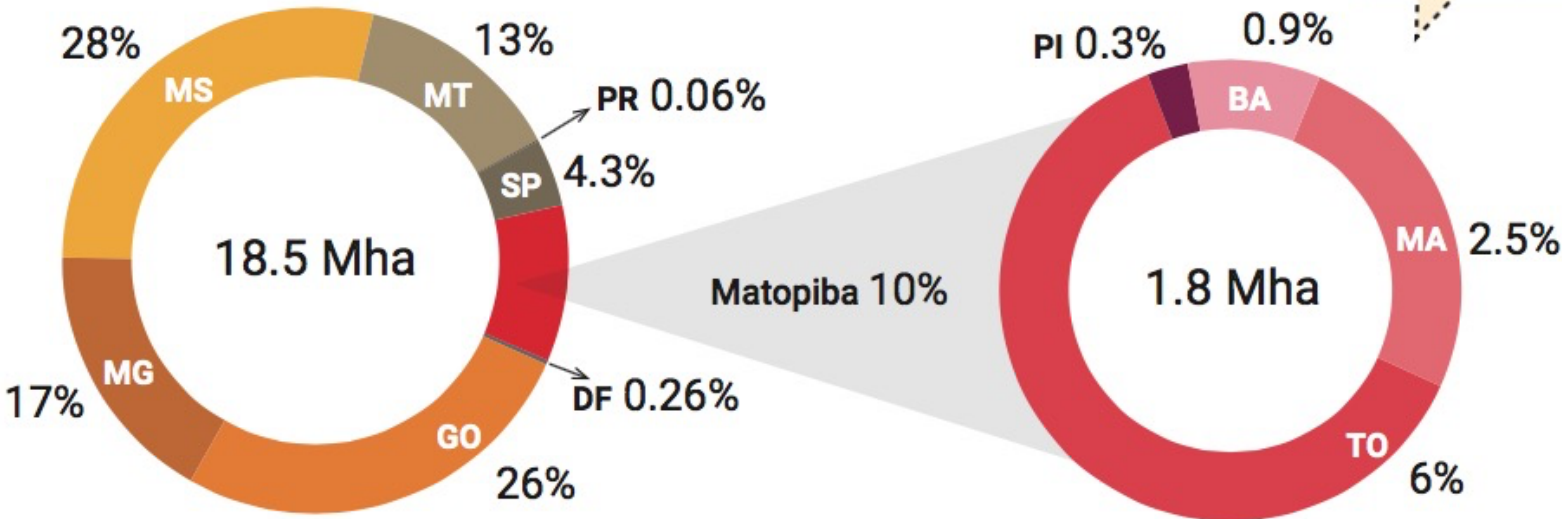
Pastures, the agricultural opportunity of the Cerrado



HIGH SOY SUITABILITY ON PASTURE

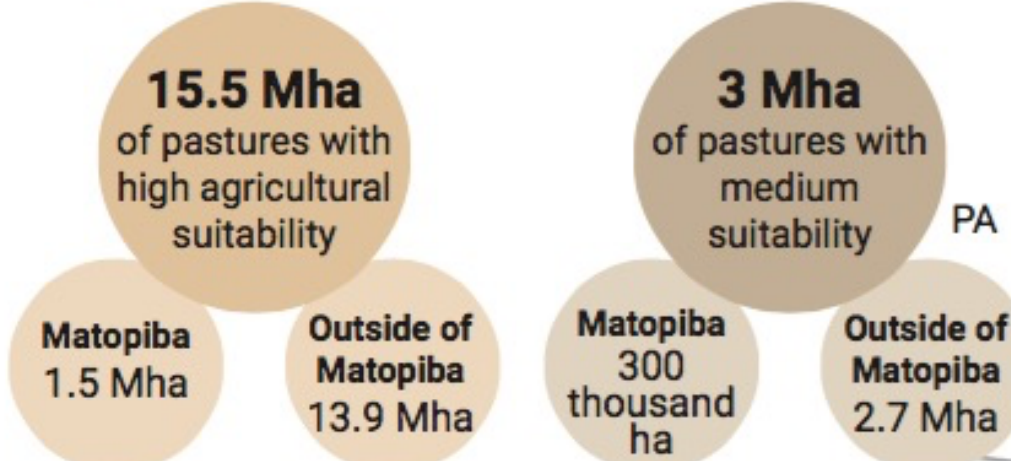
Agricultural suitability

PASTURES WITH HIGH AND MEDIUM AGRICULTURAL SUITABILITY WITHOUT RESTRICTIONS⁷ FOR AGRICULTURE



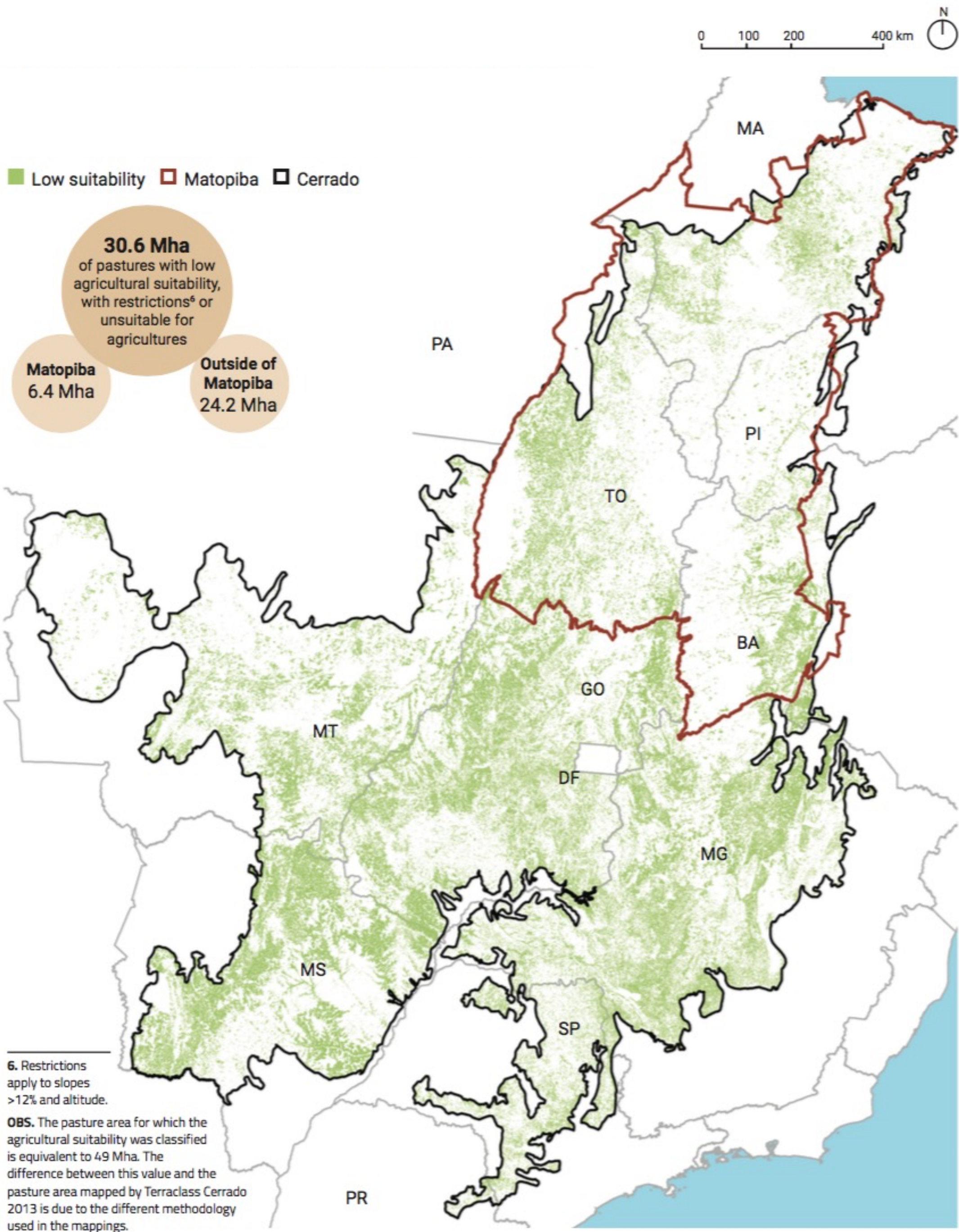
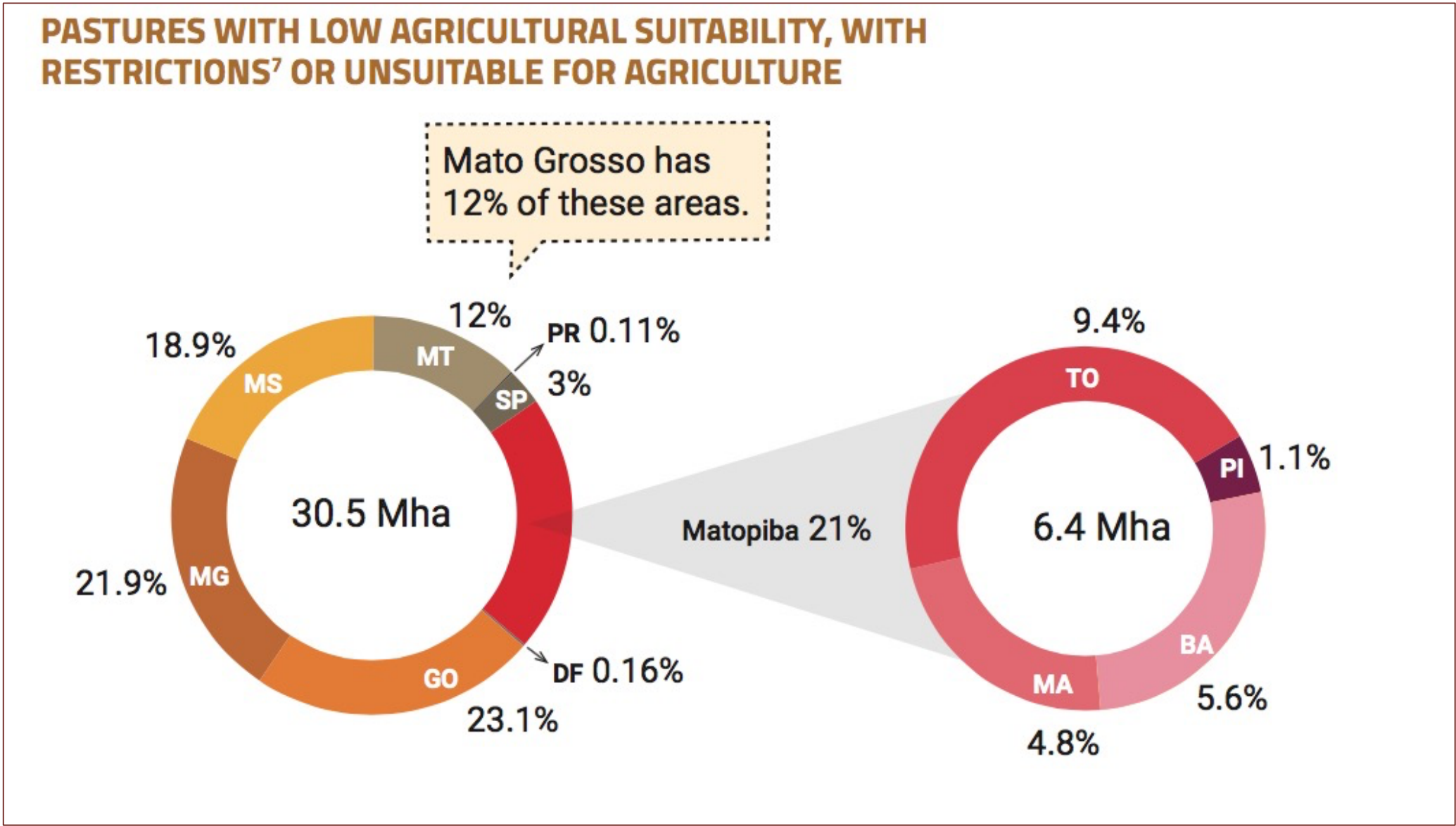
PASTURES WITH HIGH AND MEDIUM AGRICULTURAL SUITABILITY AND WITHOUT RESTRICTIONS⁵ CAN SUPPORT THE DEMAND FOR AGRICULTURAL EXPANSION AREAS

Medium suitability Matopiba
High suitability Cerrado



5. Restrictions apply to slopes >12% and altitude.

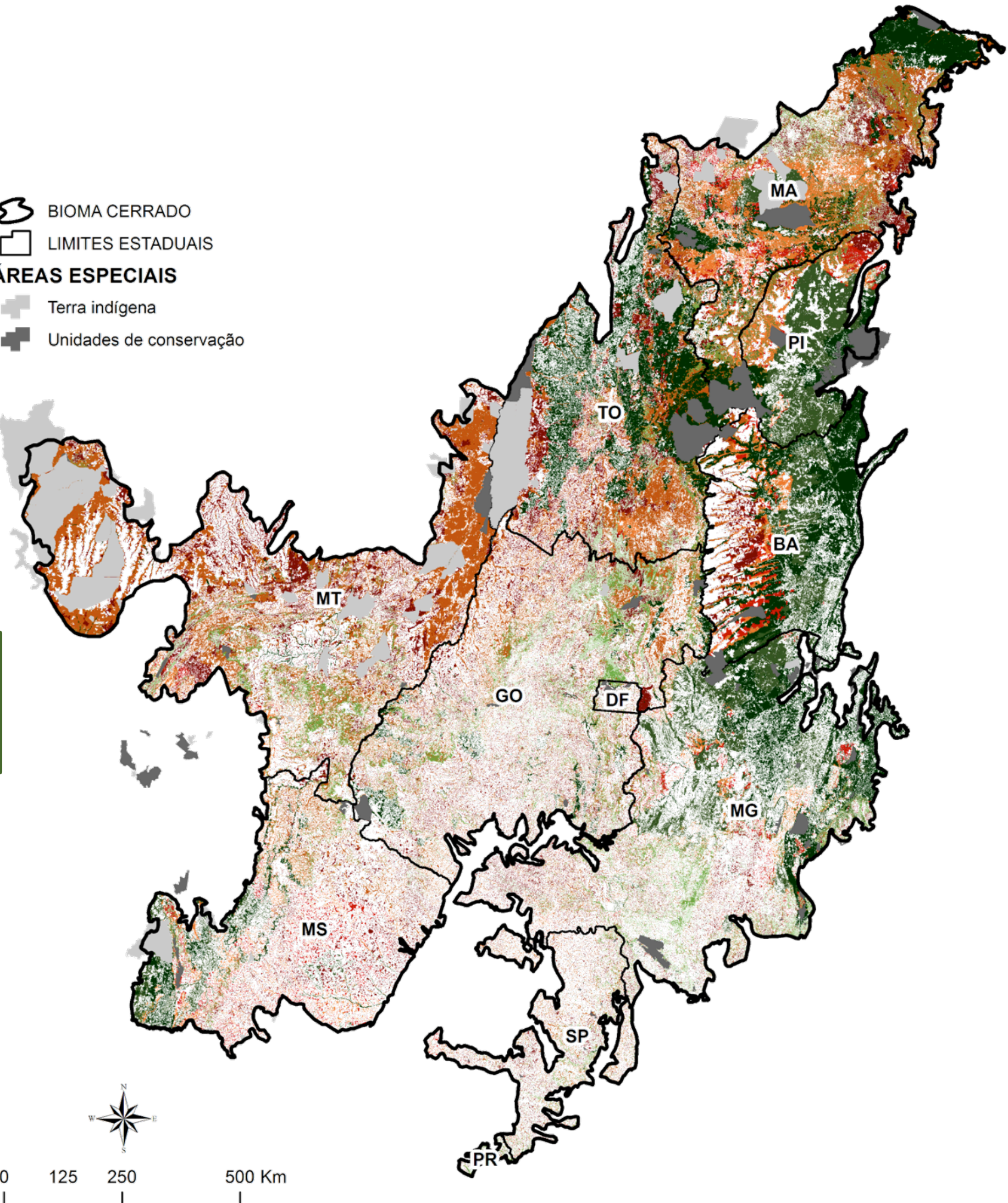
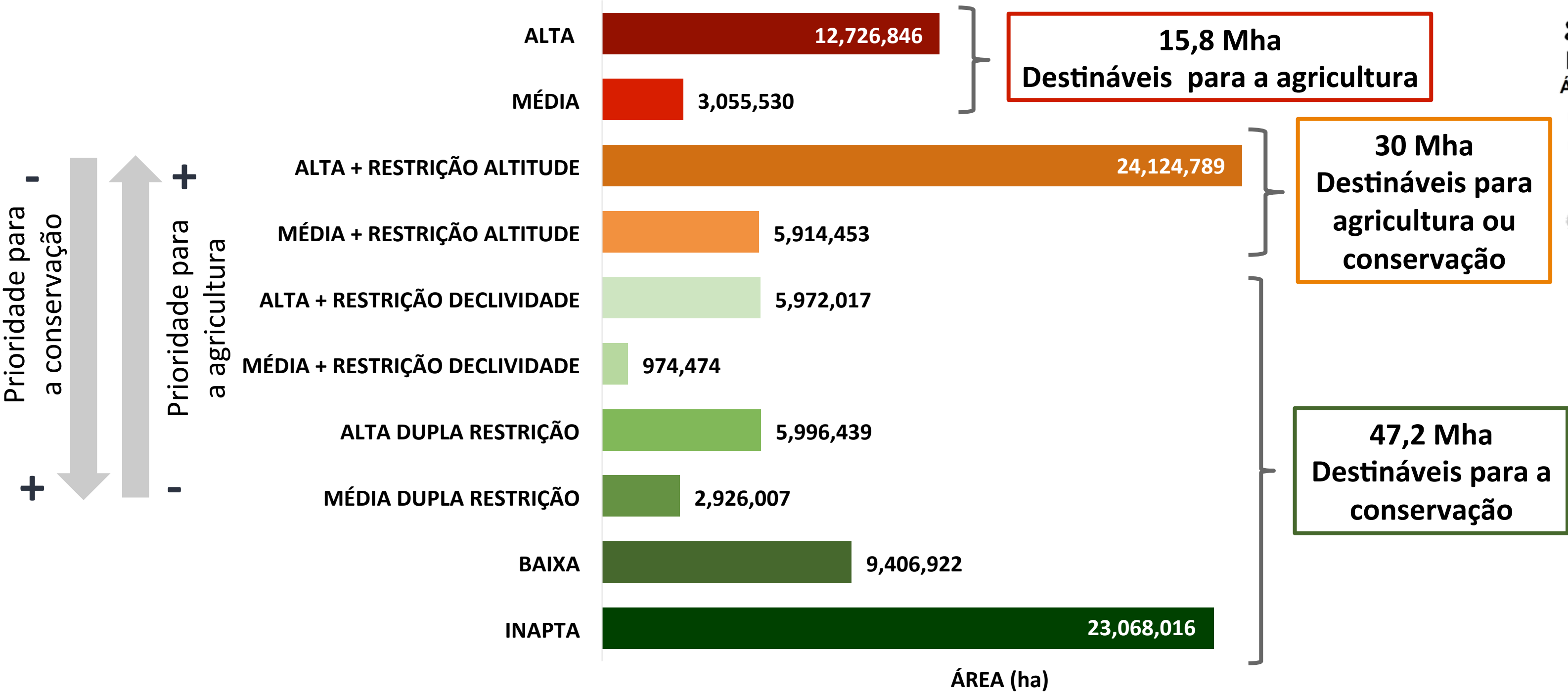
LOW SOY SUITABILITY ON PASTURE



DEMAND OF FOREST LAW IN THE CERRADO

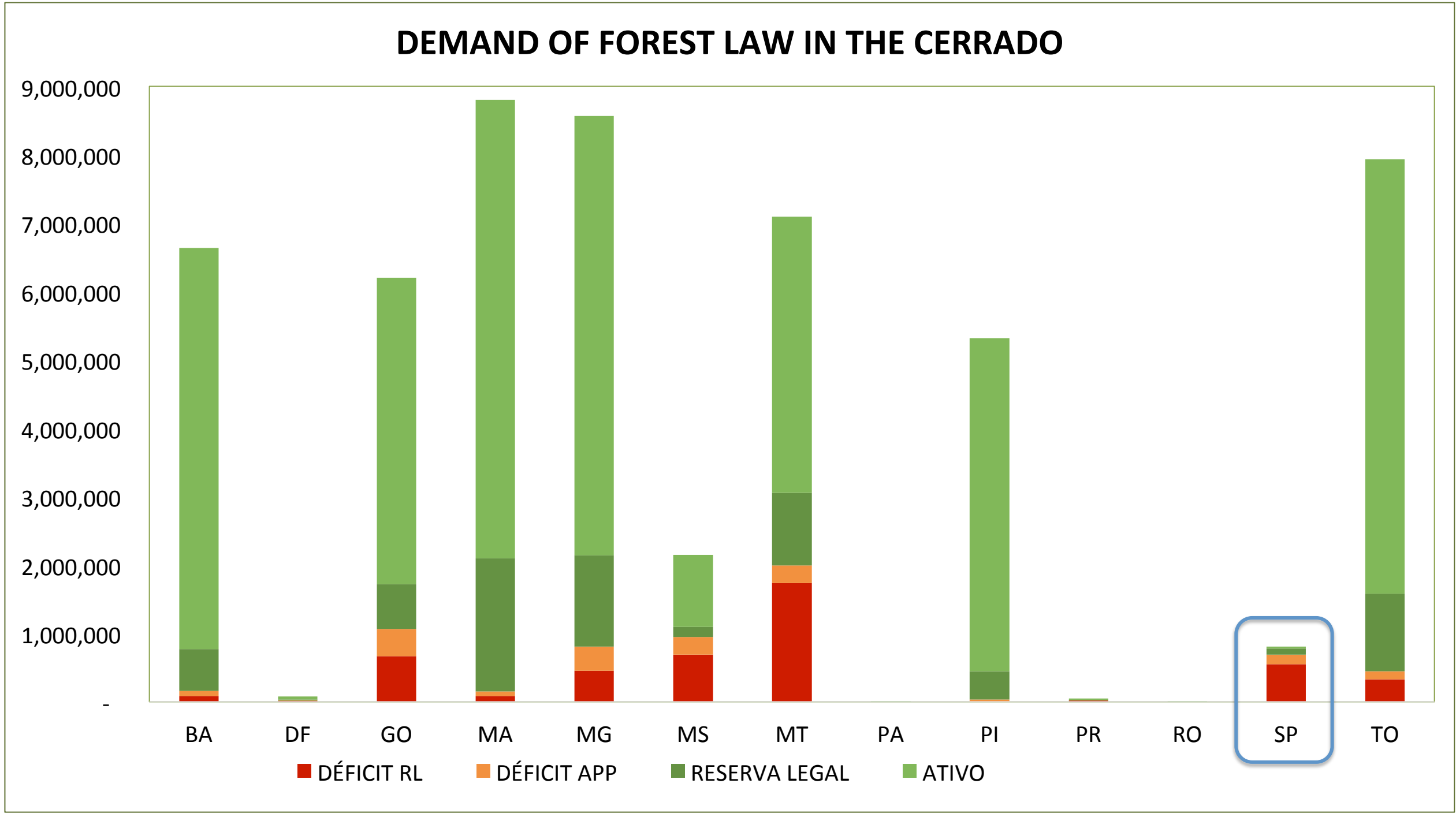
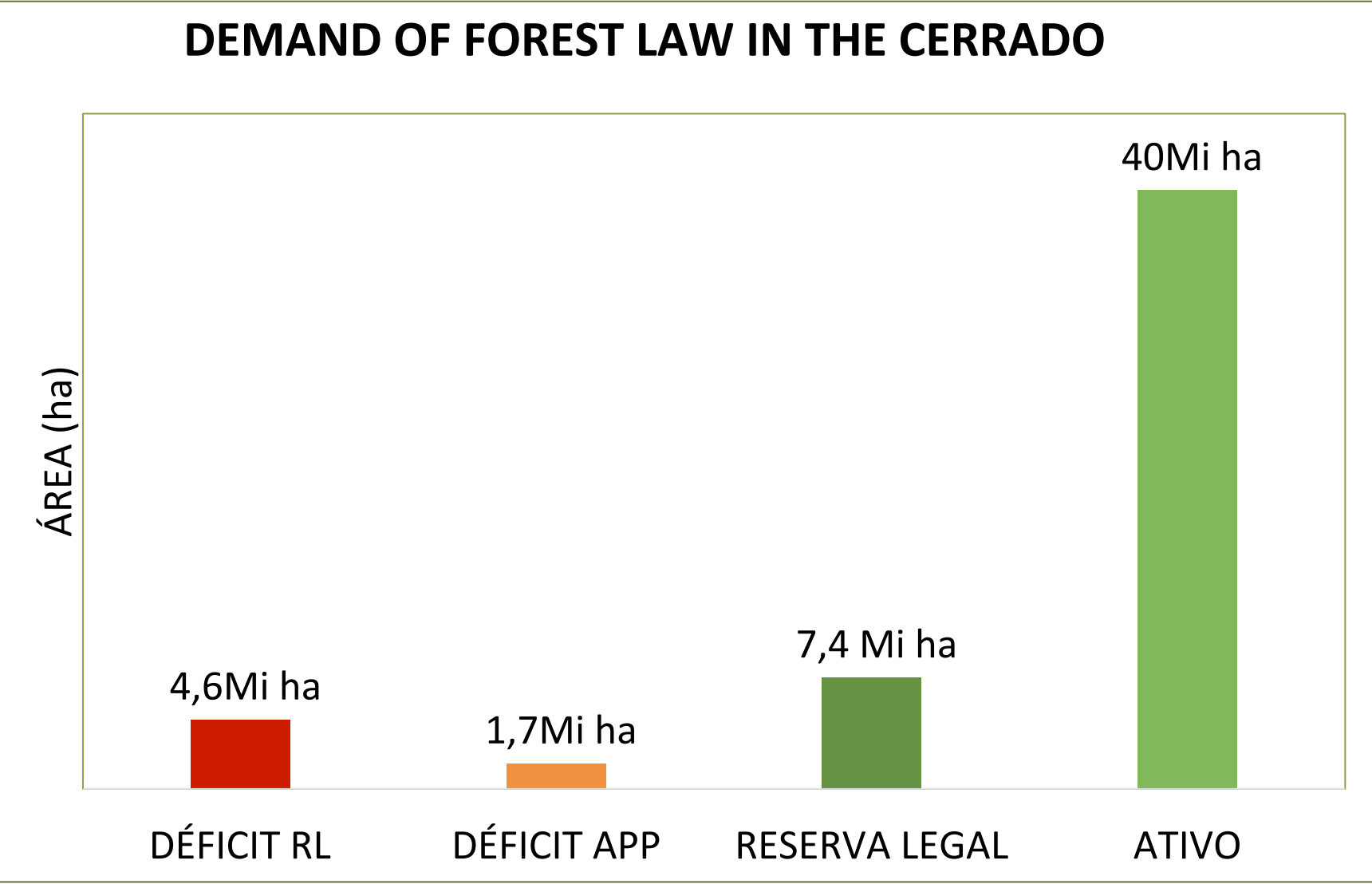
AGRICULTURAL SUITABILITY ON NATIVE VEGETATION IN PRIVATE AREAS*

(TOTAL = 93 Mha)

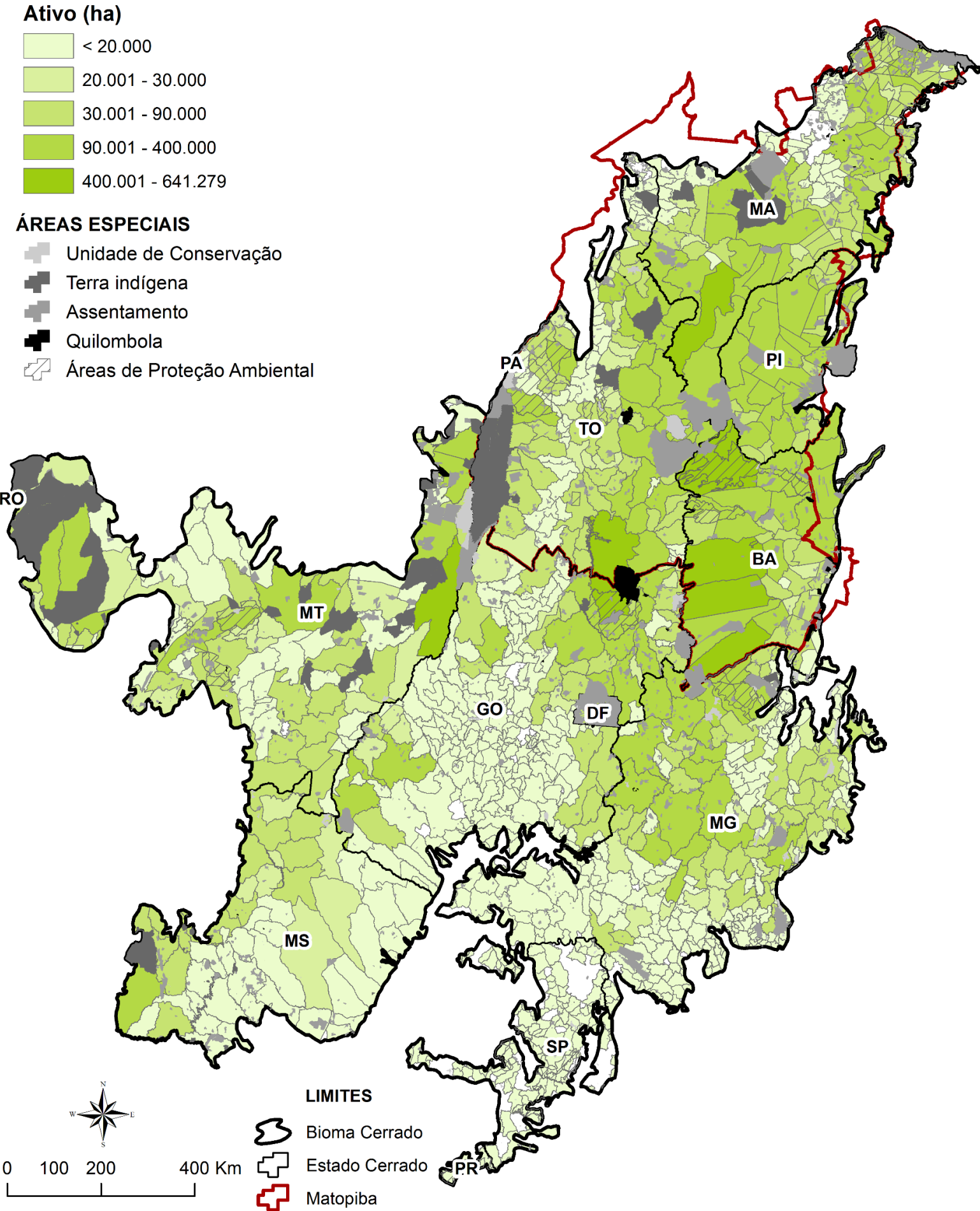
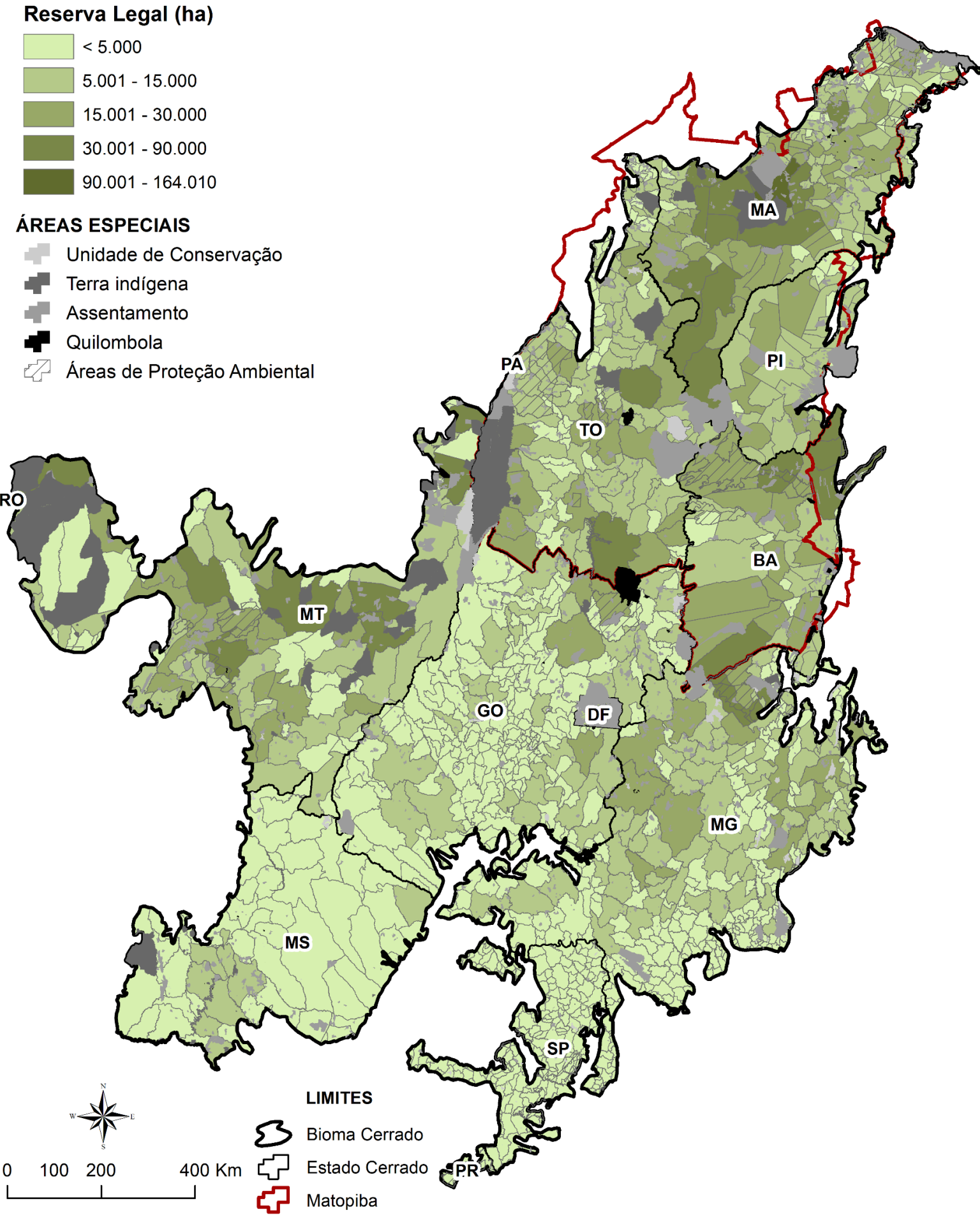
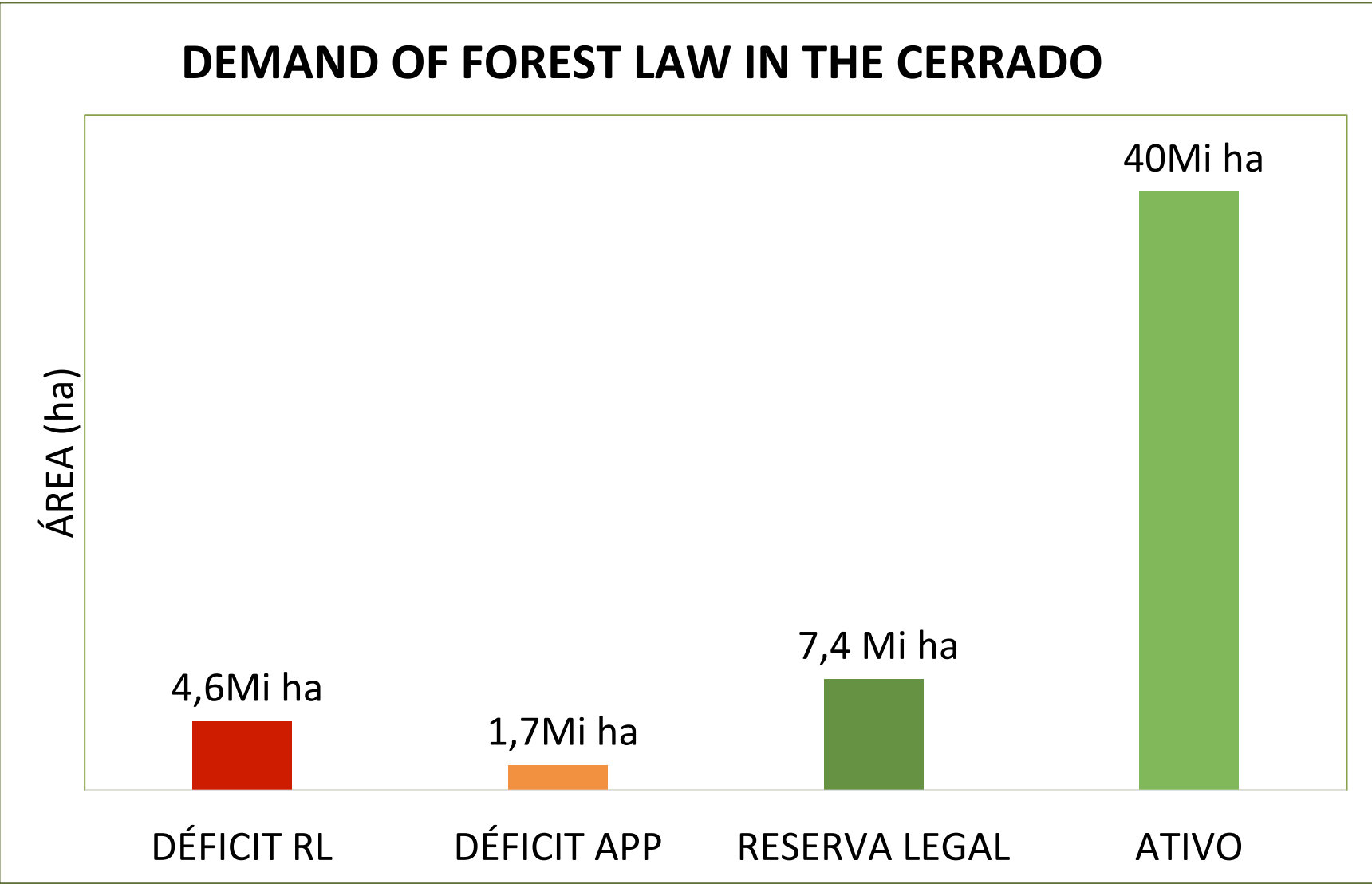


* Descontados valores de vegetação em UC e TI

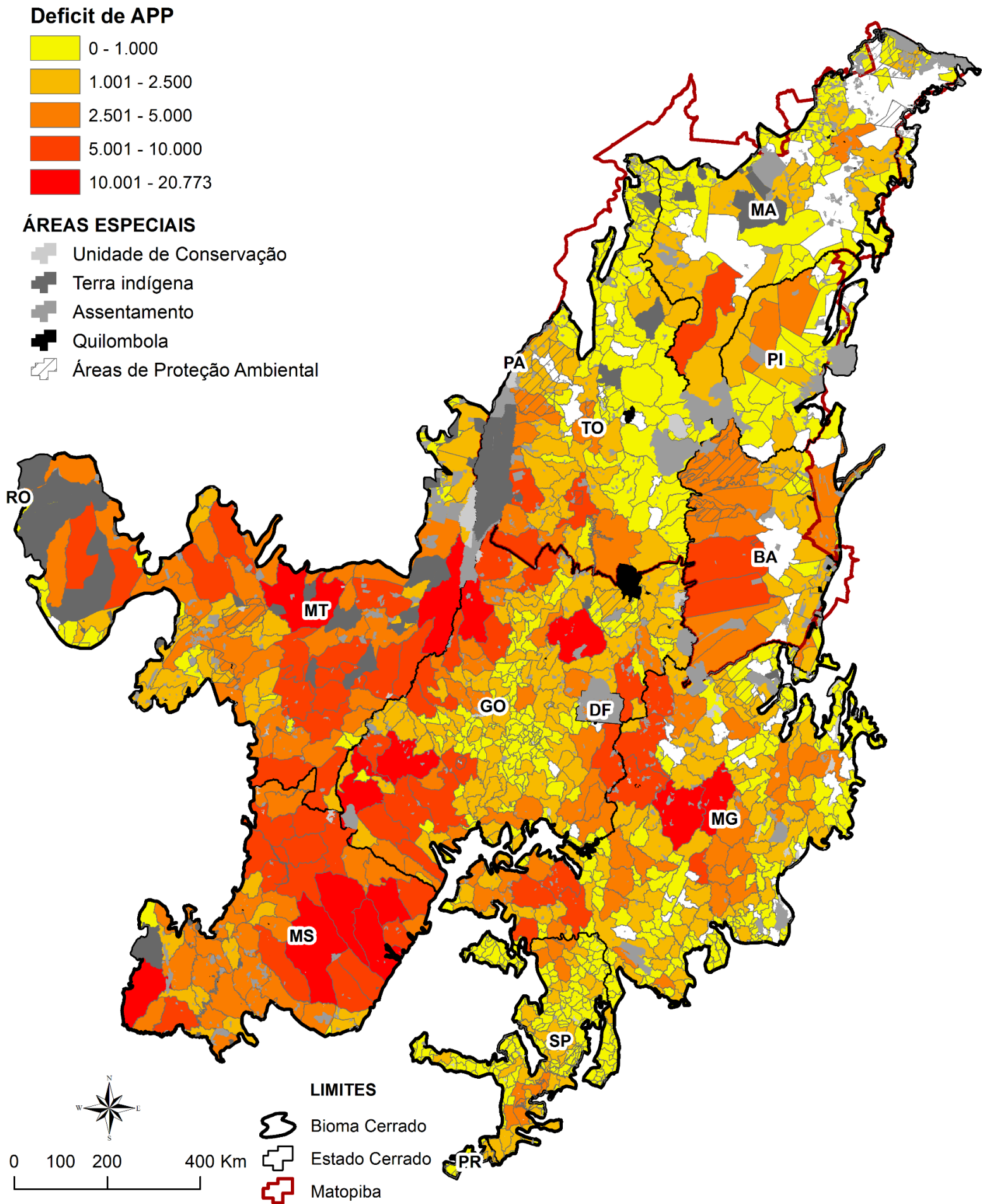
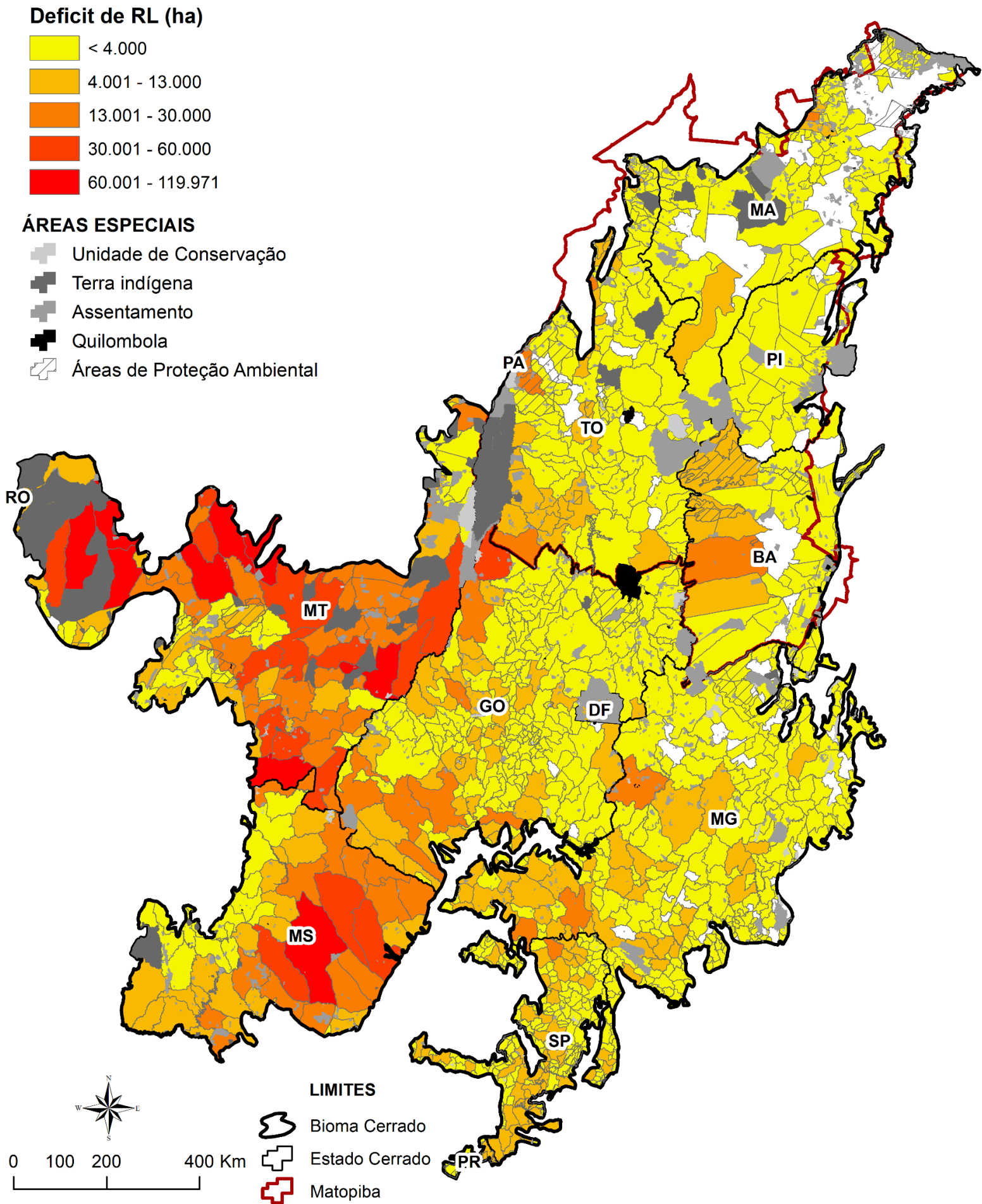
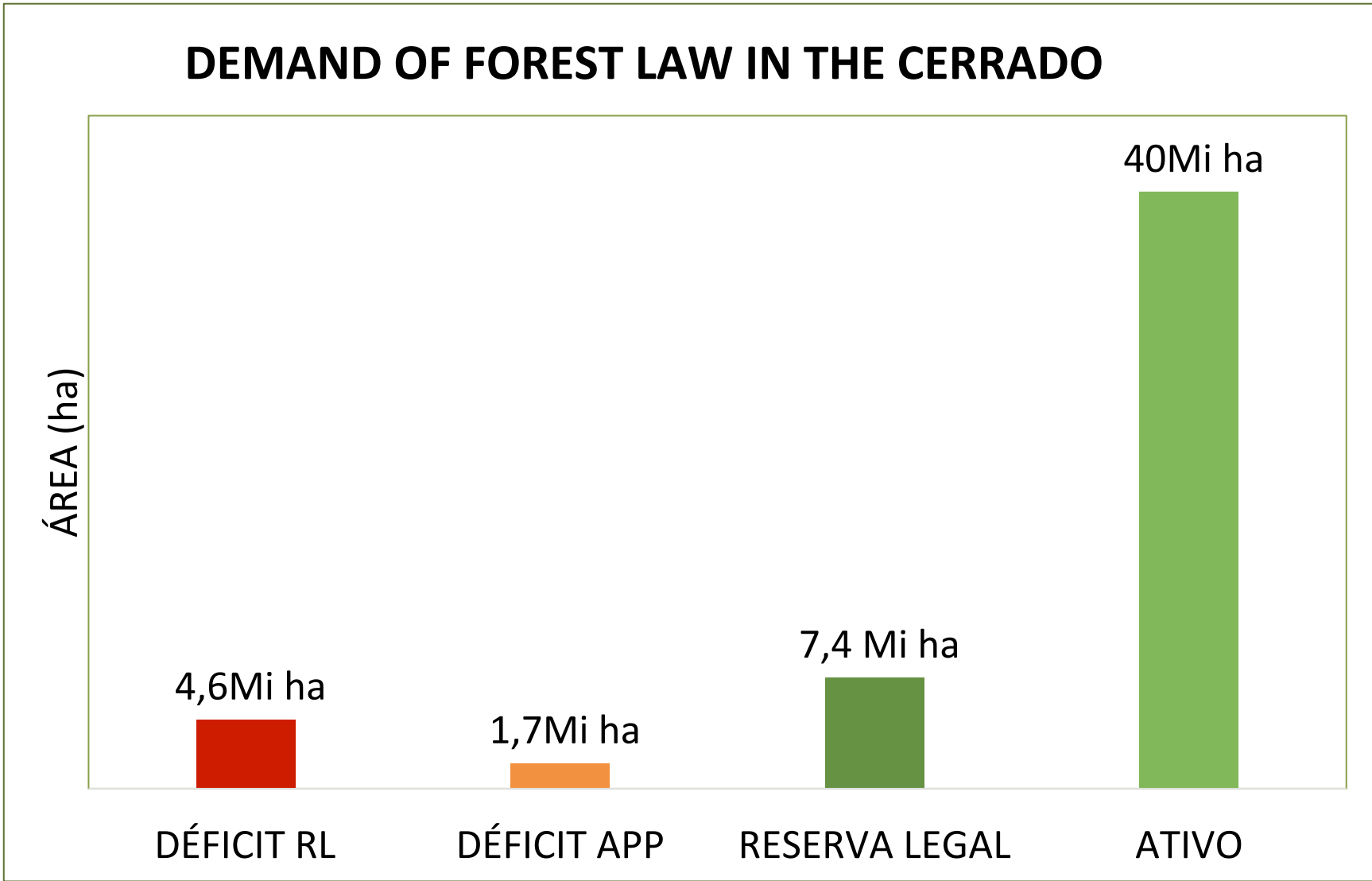
DEMAND OF FOREST LAW IN THE CERRADO



DEMAND OF FOREST LAW IN THE CERRADO



DEMAND OF FOREST LAW IN THE CERRADO



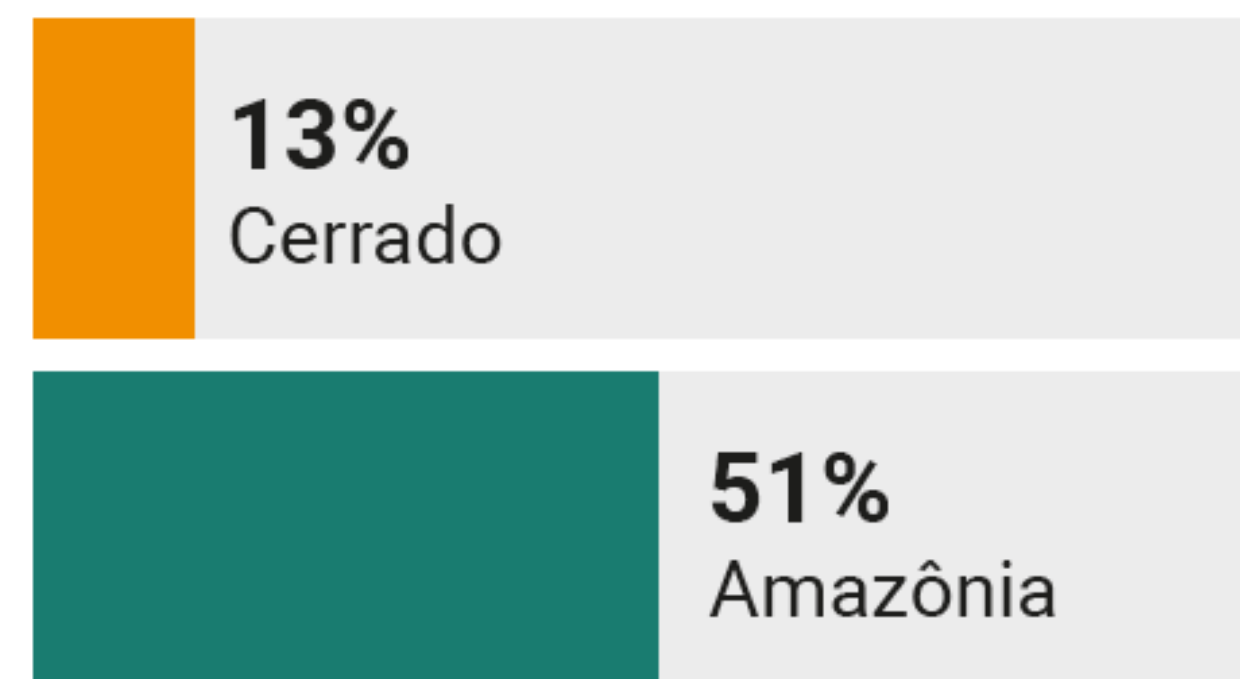
The background of the slide is a dark green color with a white topographic map pattern. The pattern consists of numerous concentric, irregular lines that create a sense of depth and texture, resembling a contour map of a hilly or mountainous region.

POSSIBILITIES FOR PRIVATE CONSERVATION IN THE CERRADO

ÁREAS PROTEGIDAS NO CERRADO

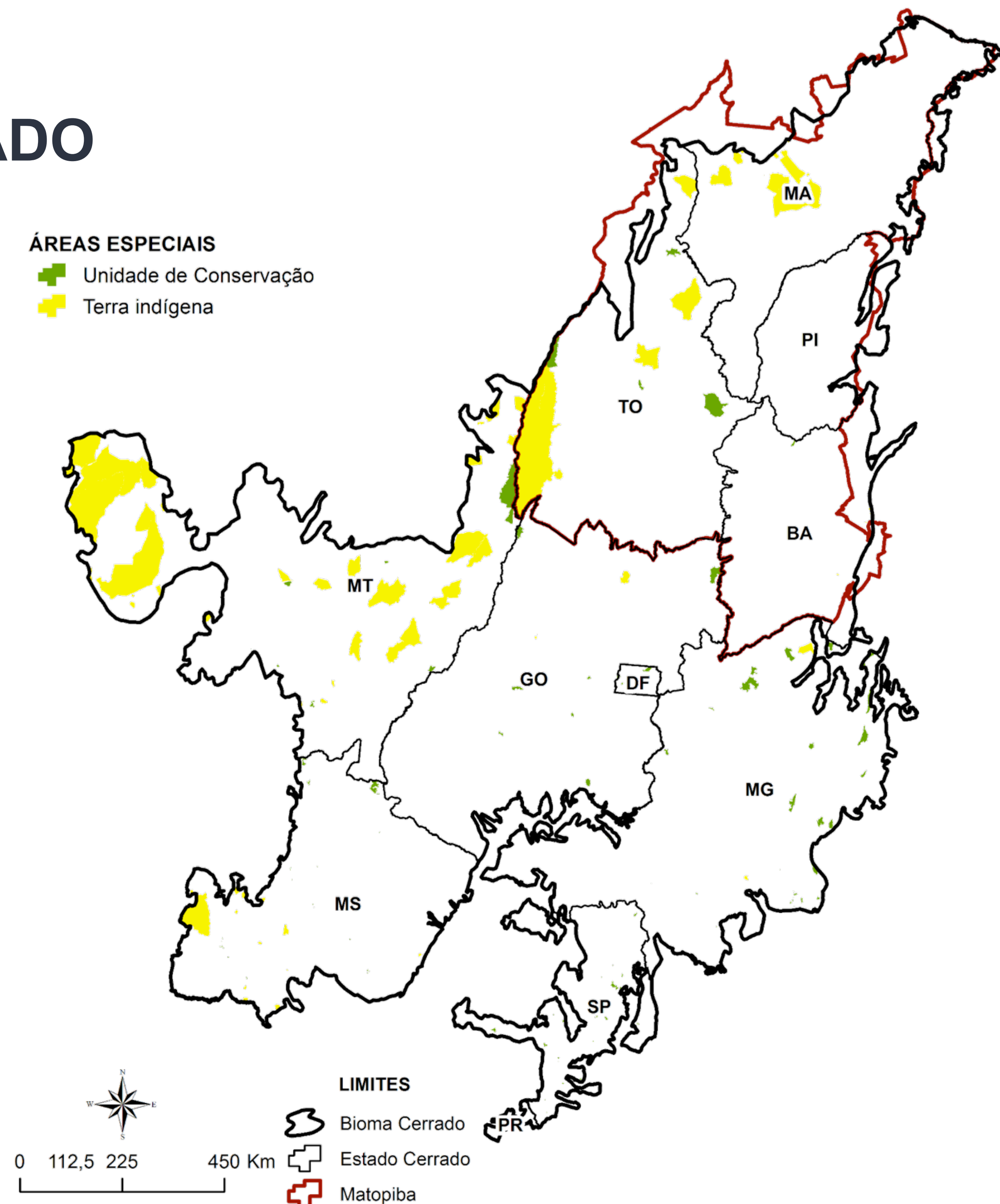


UNIDADES DE CONSERVAÇÃO (UCS) E TERRAS INDÍGENAS



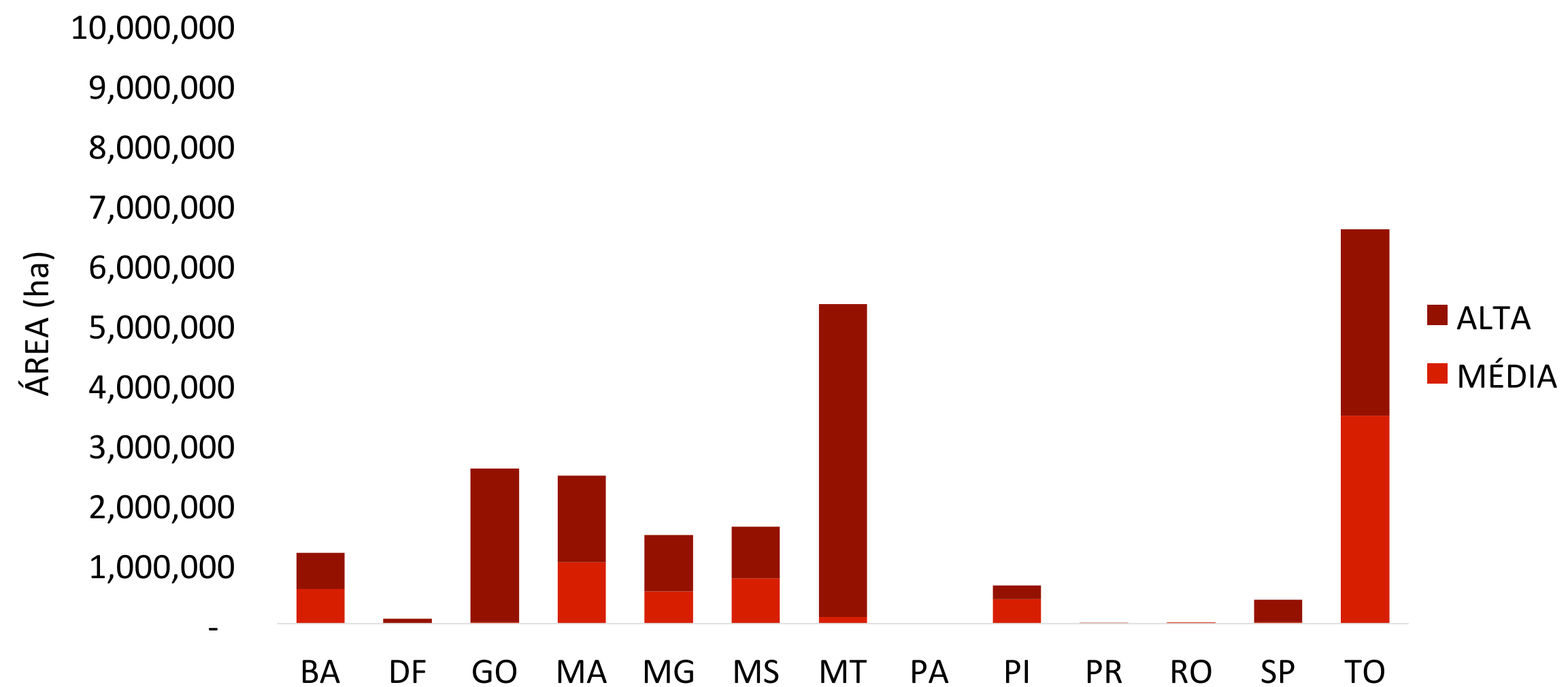
ÁREAS ESPECIAIS

- Unidade de Conservação
- Terra indígena

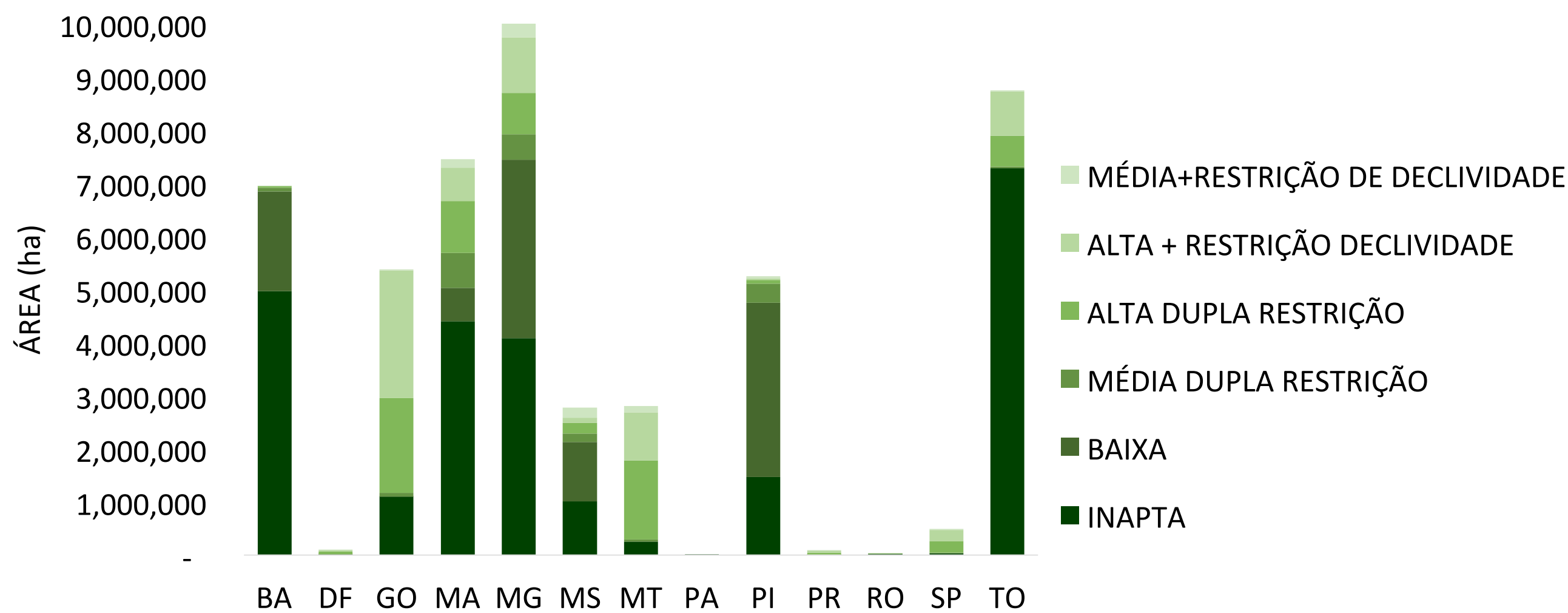


AGRICULTURAL SUITABILITY ON NATIVE VEGETATION IN PRIVATE AREAS

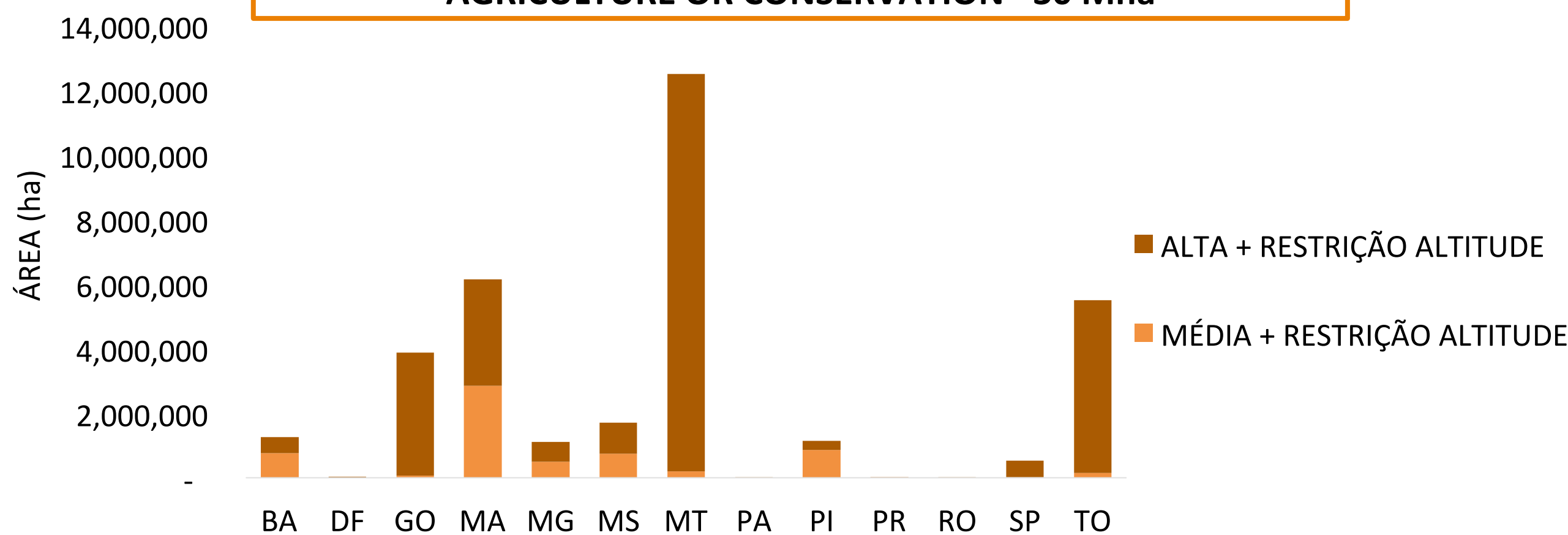
AGRICULTURA ~15,8 Mha



CONSERVATION ~47,2 Mha



AGRICULTURE OR CONSERVATION ~30 Mha



PRIORITIES FOR CONSERVATION FROM MINISTRY OF ENVIRONMENT (MMA-2010)

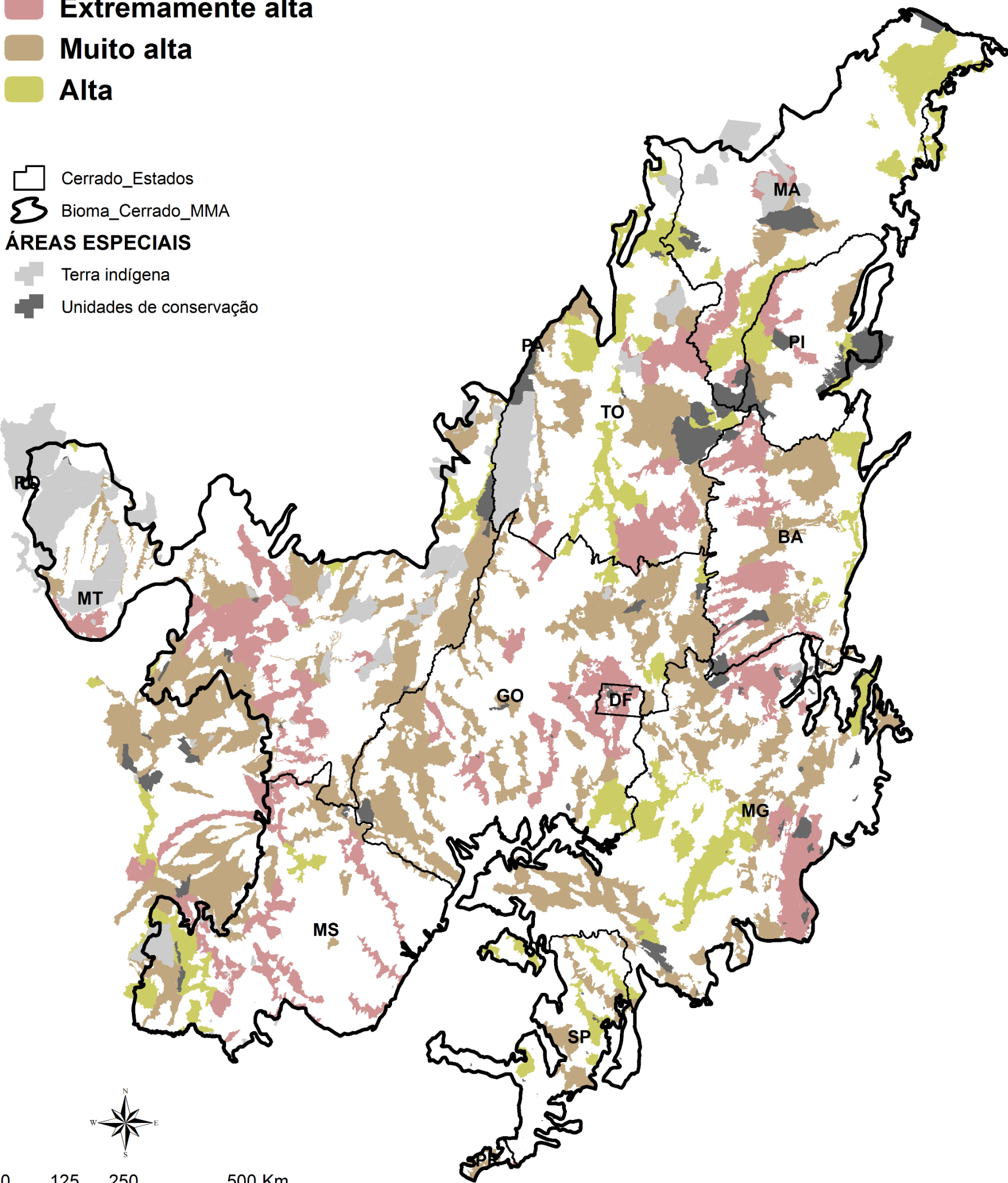
PRIORIDADE DE CONSERVAÇÃO

- Extremamente alta
- Muito alta
- Alta

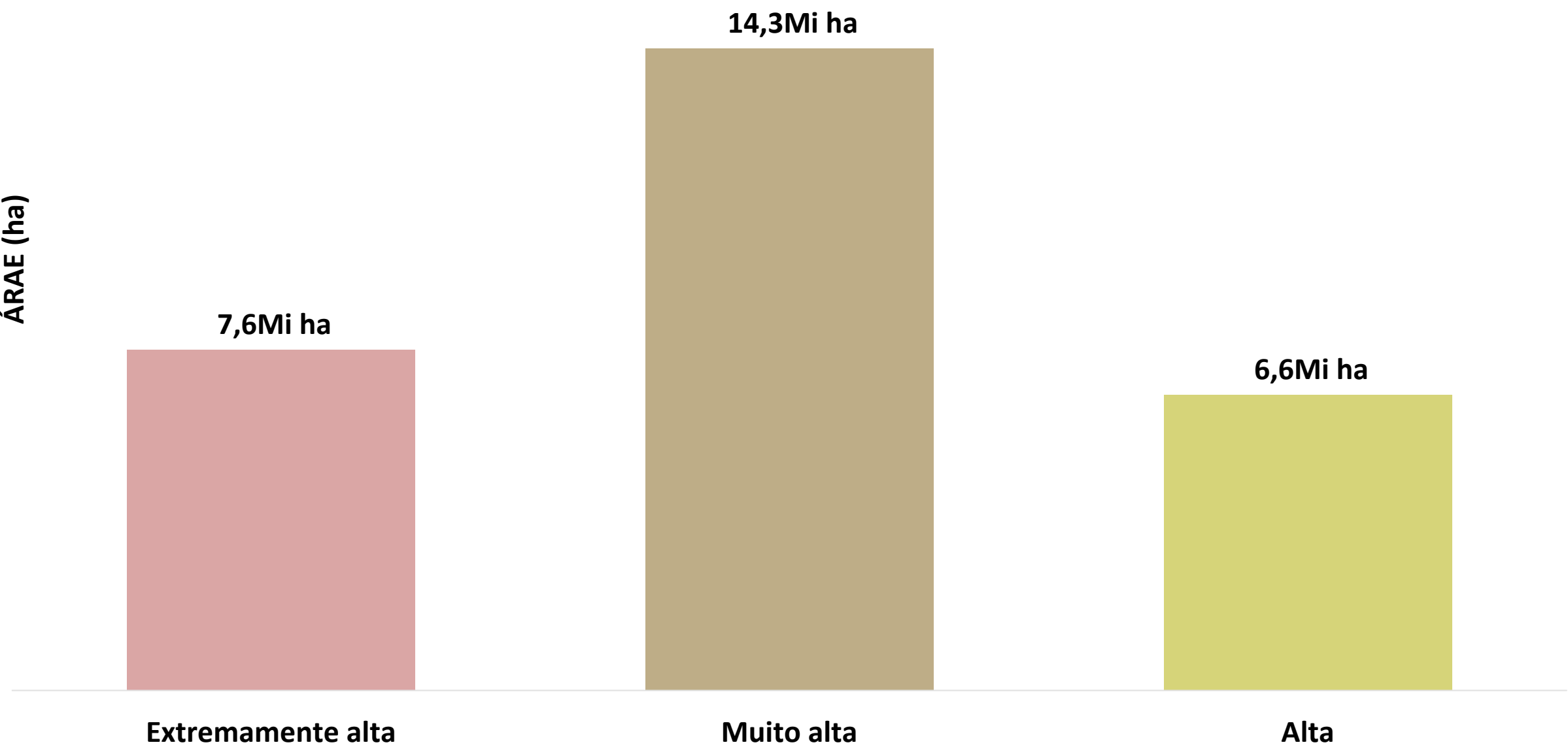
- Cerrado_Estados
- Bioma_Cerrado_MMA

ÁREAS ESPECIAIS

- Terra indígena
- Unidades de conservação



GRADIENT OF PRIORITIES FOR CONSERVATION (Total=28,5 Mha)

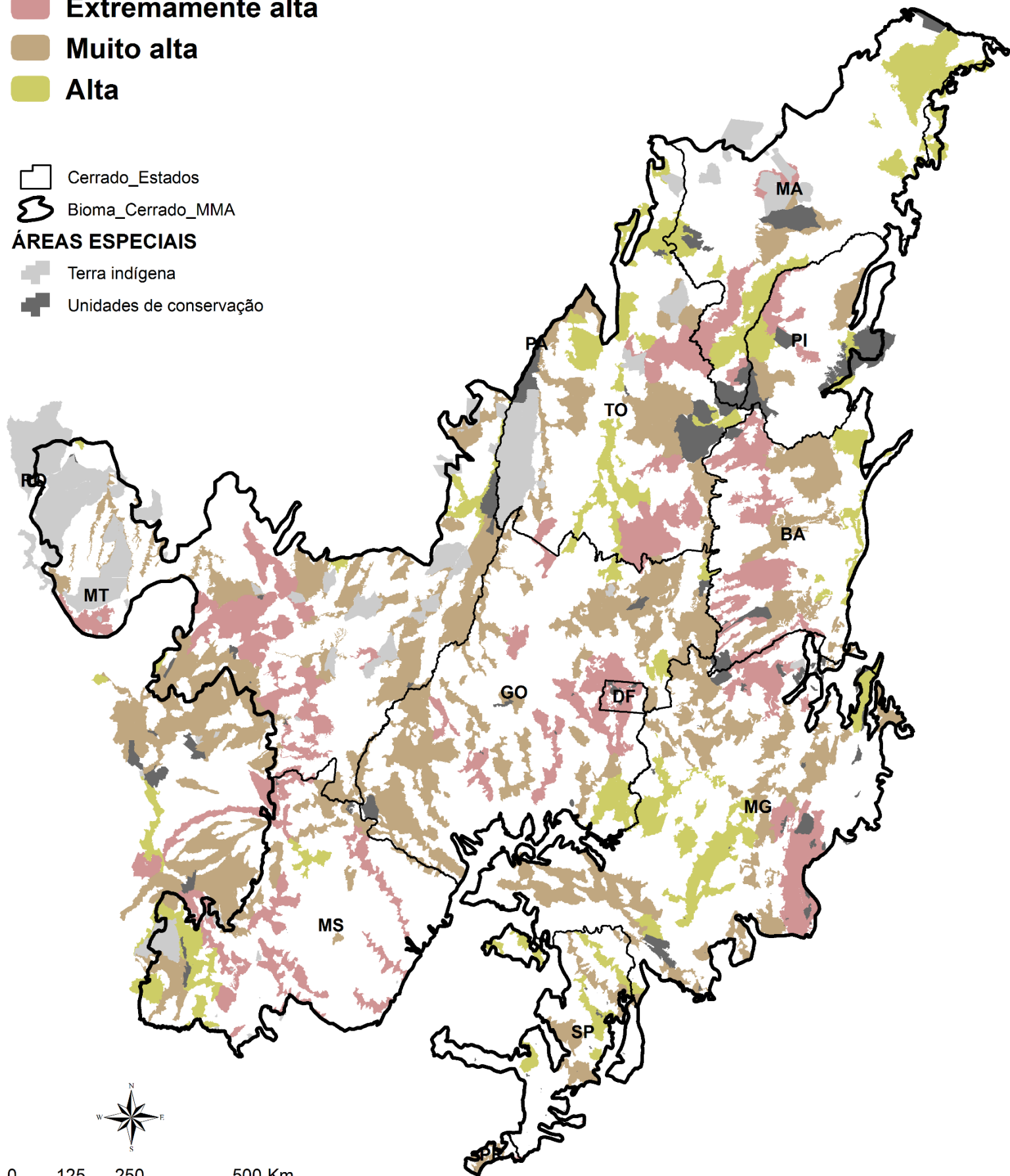


AGRICULTURAL SUITABILITY ON PRIORITY AREAS FOR CONSERVATION

PRIORIDADE DE CONSERVAÇÃO

- Extremamente alta
- Muito alta
- Alta

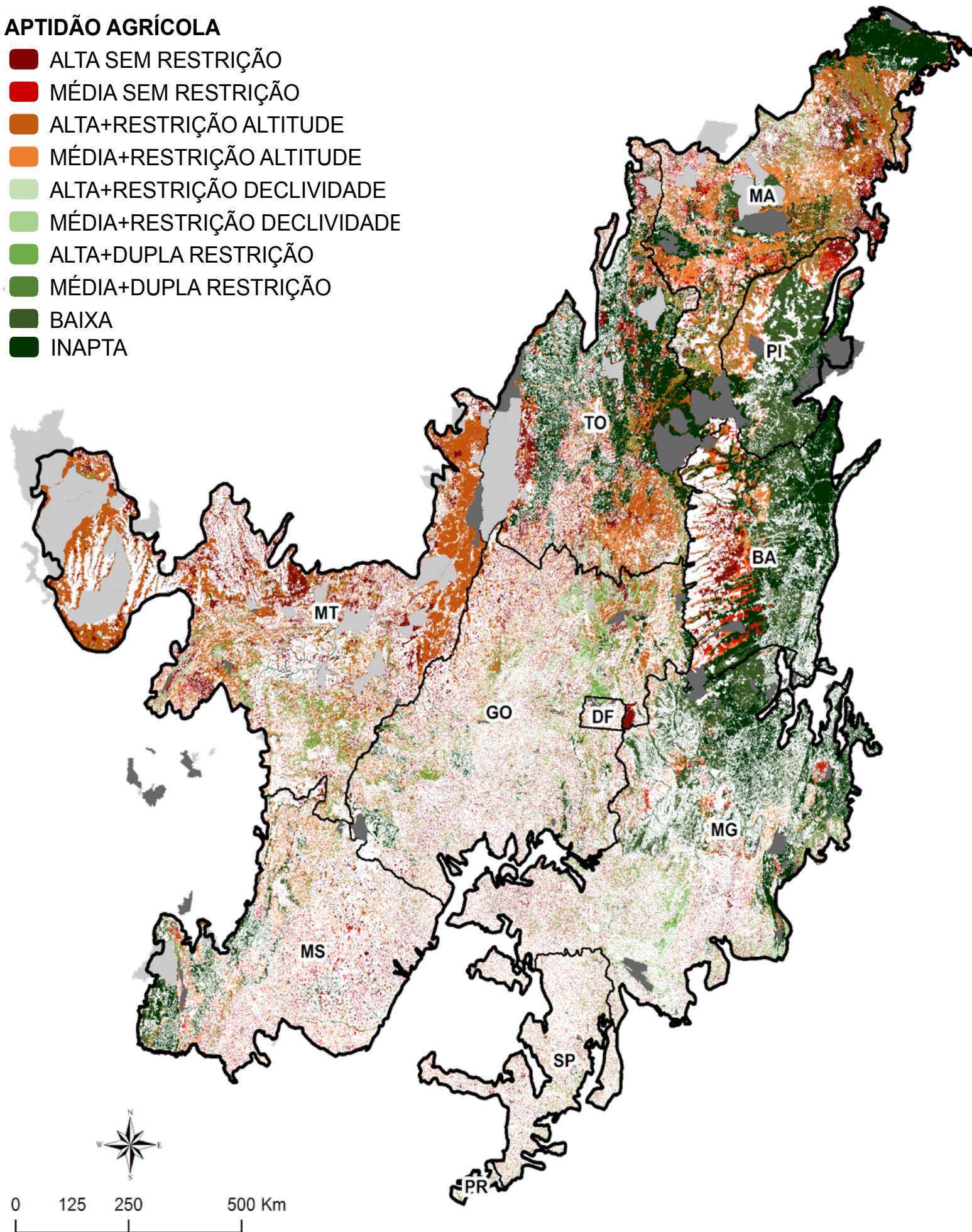
- Cerrado_Estados
- Bioma_Cerrado_MMA
- ÁREAS ESPECIAIS
 - Terra indígena
 - Unidades de conservação



X

APTIDÃO AGRÍCOLA

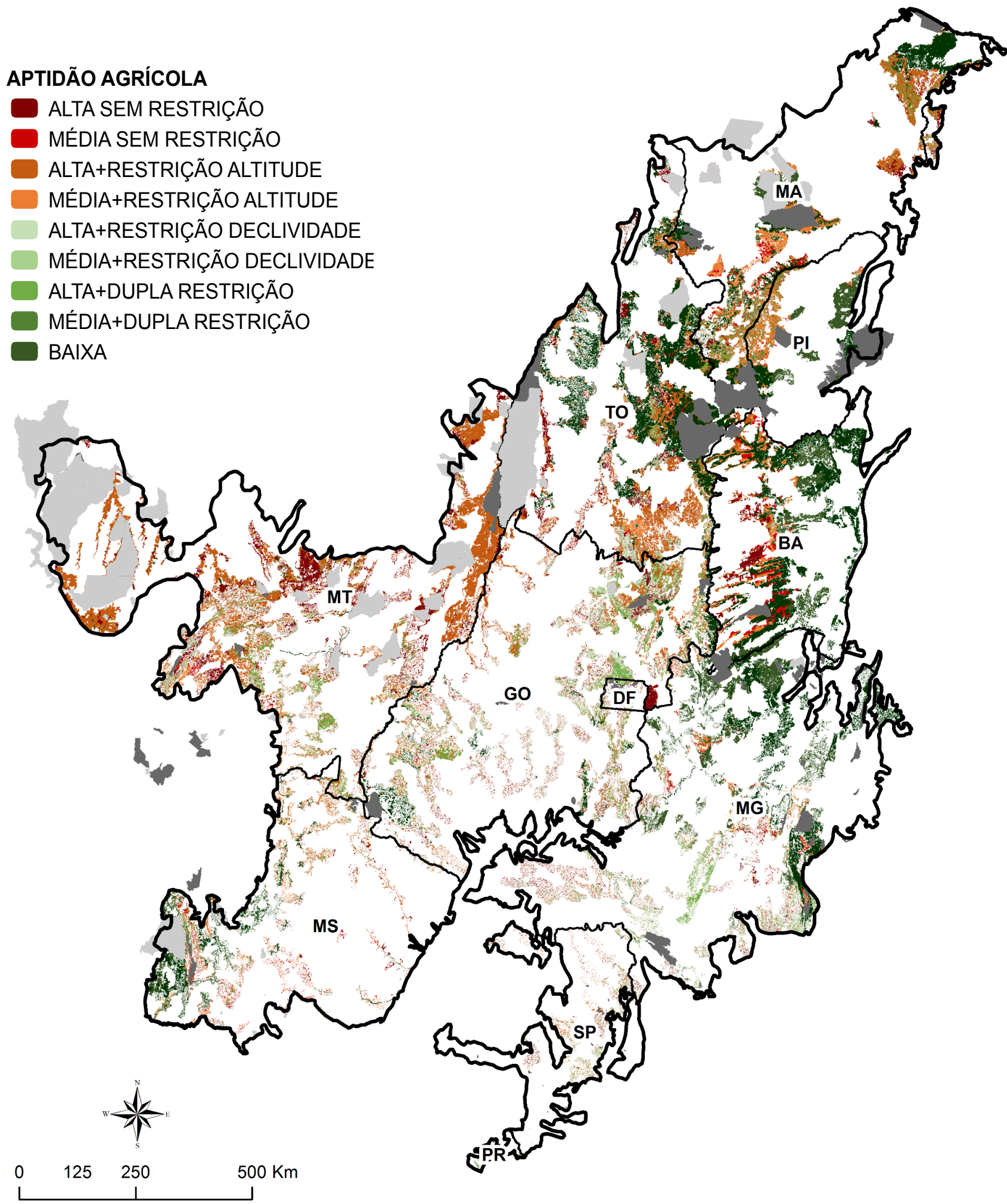
- ALTA SEM RESTRIÇÃO
- MÉDIA SEM RESTRIÇÃO
- ALTA+RESTRIÇÃO ALTITUDE
- MÉDIA+RESTRIÇÃO ALTITUDE
- ALTA+RESTRIÇÃO DECLIVIDADE
- MÉDIA+RESTRIÇÃO DECLIVIDADE
- ALTA+DUPLA RESTRIÇÃO
- MÉDIA+DUPLA RESTRIÇÃO
- BAIXA
- INAPTA



=

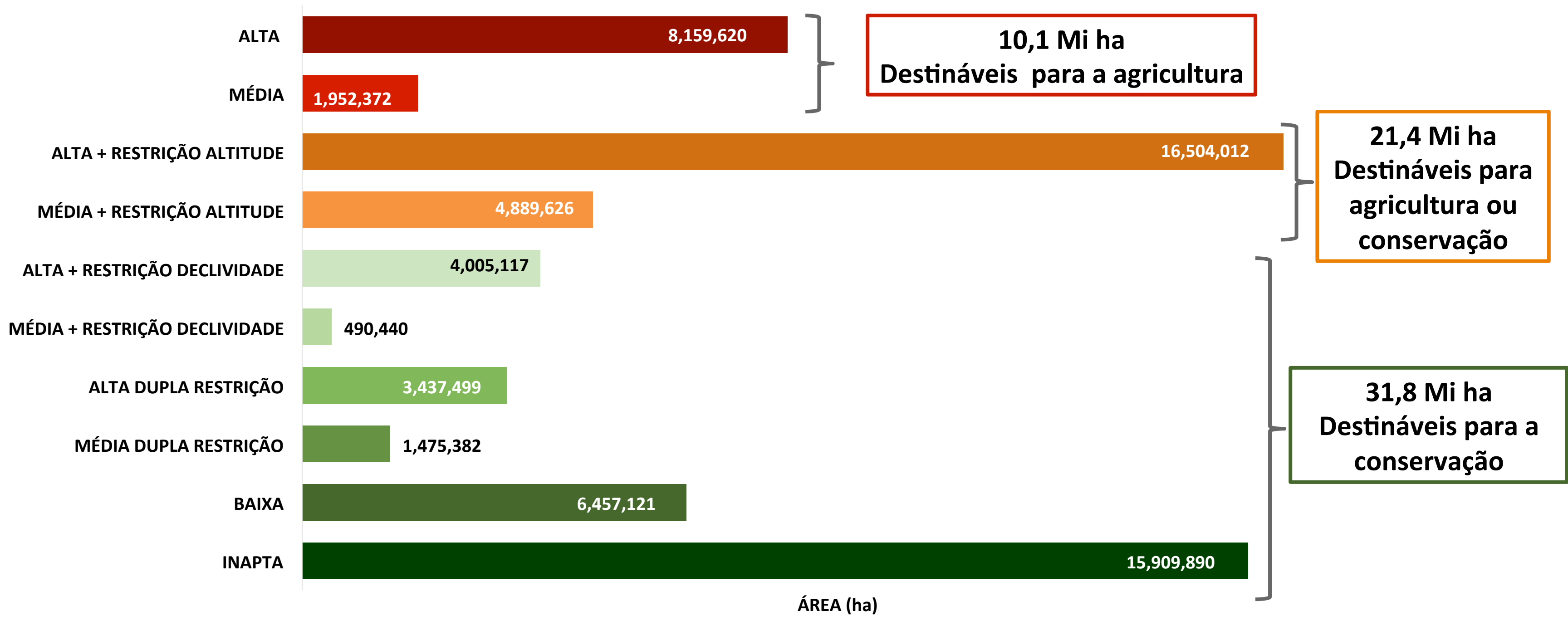
APTIDÃO AGRÍCOLA

- ALTA SEM RESTRIÇÃO
- MÉDIA SEM RESTRIÇÃO
- ALTA+RESTRIÇÃO ALTITUDE
- MÉDIA+RESTRIÇÃO ALTITUDE
- ALTA+RESTRIÇÃO DECLIVIDADE
- MÉDIA+RESTRIÇÃO DECLIVIDADE
- ALTA+DUPLA RESTRIÇÃO
- MÉDIA+DUPLA RESTRIÇÃO
- BAIXA

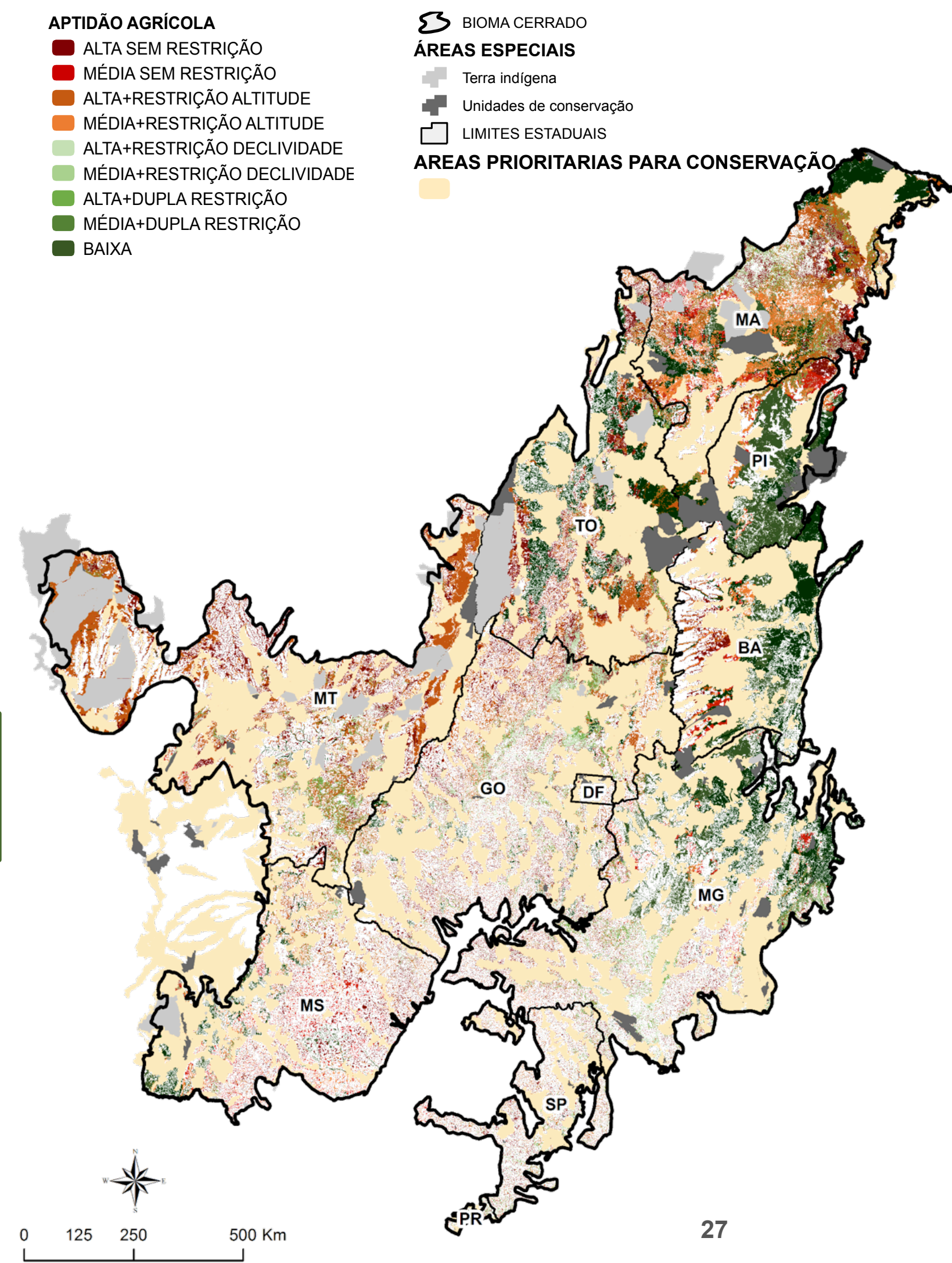


AGRICULTURAL SUITABILITY ON PRIORITY AREAS FOR CONSERVATION

APTIDÃO AGRÍCOLA NA VEGETAÇÃO NATIVA FORA DE ÁREAS PRIORITÁRIAS* (Total= 63,3 Mha)



* Também foram descontados os valores de vegetação em UC e TI



OBRIGADO
THANK YOU

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